CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, June 20, 1907.

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CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

(denotes that this work is advertised in Engineering News.)*

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RAILWAYS.

ALGOMA AND COPPER RANGE.—F. C. Smith, Gen. Mgr., Superior Copper Co., Ltd., Sault Ste. Marie, Ont., advises us that the Lake Superior Power Co., L. H. Davis, Sault Ste. Marie, Ont., Ch. Engr., probably will construct a steam line from the Superior Copper Mines to Algoma, connecting with the Central & Hudson's Bay Ry. Surveys have been completed, and capital and right-of-way obtained. The line will be five miles long. Frank Perry, Sault Ste. Marie, Mich., is Pres. Noted on June 6.

ARKANSAS.—William F. Hammock, Quitman, Ark., is promoting a railway to be built from Quitman via Greenbrier, to Conway, Ark., 35 miles. No steps have yet been taken to organize a company.

ATCHISON, TOPEKA & SANTA FE.—Contract has been awarded to A. MOORE, of Newton, Kan., to reconstruct 36 miles of track between Woodward, Okla., and Higgins, Tex.

BAKERSFIELD AND VENTURA.—A branch is to be built northeast from Sunset to Bakersfield, Cal., also a branch from Saticoy south via Oxnard, to Hueneme, on the Pacific coast, a total of 370 miles. A branch is projected from Santa Paula southeast to Santa Monica, thence east to Los Angeles, 50 miles. Contracts for grading and bridges may be let early this fall. The work will include several tunnels and eight or ten bridges. T. B. Blackburn is Ch. Engr., Los Angeles, Cal.

BALTIMORE & OHIO.—The New York "Commercial" publishes the following item: "Present conditions of railroad finances are not conducive to spending large sums of money for new lines, except where they are badly needed," says Chief Engineer Carothers of the Baltimore & Ohio. "I have never seen construction affairs quite so dull as at present, and the outlook now is that this will continue a couple of years. Roads are doing a great deal of construction, but this was mainly on work that was started last year. Little new work is being done. We are finishing up several large construction projects on the Baltimore & Ohio, but there is absolutely nothing new to be taken up. The last improvement of any magnitude for which we contracted was the new bridge over the Susquehanna River.

"Among the interesting pieces of work that we are going ahead with from last year are the fine terminal improvements for Wheeling, the four-tracking between Pittsburgh and McKeesport, the new stations at Braddock, the new lines from Sterling to Nova, Ohio, and the revision of the old main line from Alberton to Davis, Md. The latter has been a big work, including two tunnels and two bridges in a stretch of 3½ miles. The new work there for a little more than three miles will cost about $750,000. The Sterling-Nova line, in Ohio, consists of 24 miles of revision of line on a more extensive scale even than the Haselton-Akron revision, completed last year. The line is being double-tracked and will complete the two-track road from Pittsburgh to Chicago Junction, Ohio. The Pittsburgh-McKeesport four-tracking improvement we expect to have completed by August. Several stretches of the four-track line are now in use. It will give us a four-track road from Laughlin Junction to McKeesport, affording a great relief for the crowded district."

BELMONT CENTRAL.—This company, of Laferty, Belmont County, capital $10,000, has been incorporated by James Prendergast, H. M. Schaff, J. W. Franklin, Alexander Neff and Charles S. M. Krumm. They propose to build a steam railway running from Laferty to Morristown in Belmont County.

BLOOMINGTON & NORTH BRANCH.—Organized at Oakland, Md., to construct a standard gage railroad from Bloomington, on the line of the Baltimore & Ohio, west of Pixmont, extending along the west side of the north branch of the Potomac River to Gorman, Garrett County, a distance of 30 miles. The proposed road will parallel the Western Maryland its entire length and will carry the output of about 15 coal mines on the Maryland side of the river.

BLOOMINGTON & NORTH BRANCH.—This company has been organized at Oakland, Md. A charter has been granted by the State of Maryland. It is proposed to construct a standard-gage railroad from Bloomington, on the line of the Baltimore & Ohio Railroad, just west of Pixmont, extending along the west side of the north branch of the Potomac River to Gorman, Garrett County, a distance of 30 miles. The proposed road will parallel the Western Maryland Railroad its entire length and will carry the output of about 15 coal mines on the Maryland side of the river.

CAIRO & TENNESSEE RIVER.—A line will be built by this company from Wickliffe, Ky., three miles east of Cairo, Ill., east through or near Mayfield, Dexter, Canton, Cadiz, Gracey, Hopkinsville, Elkton, Franklin, Scottsville, Tompkinsville, Albany, Monticello and Jellico, Ky., to Newcomb, Tenn., unless built through Bell County, and Middlesboro, Ky.; the road will pass through or near county seats in Tennessee as follows: Jacksboro, Tazeville, Sneedsville, Rogersville and Blountville to Bristol, approximately 465 miles. Arrangements are nearly completed for building the three sections from Wickliffe east to Hopkinsville, Ky., 108 miles, and these three sections probably will be finished and put in operation within one year. A large amount of terminal property has been bought and most of the right-of-way secured and surveys made for 425 miles. Contracts have been let for the three sections to the ATLANTIC & CAIRO CONSTRUCTION CO. The work is ordinary level construction for most of the way to Hopkinsville, with little rock work. There are to be two bridges, one about 1,600 ft. or 1,800 ft. long over the Tennessee River, the other about 1,000 ft. long over the Cumberland River. Maximum grades one-half of one per cent., maximum curves three degrees. L. W. Goode is Pres., 111 Broadway, New York; Charles H. Delano, Gen. Mgr., at Mayfield, Ky., and E. C. Weston, Asst. Gen. Mgr., Wickliffe, Ky.

CANADIAN NORTHERN.—D. B. Hanna, Winnipeg, Acting Gen. Mgr., states that the company is making arrangements for construction of a branch between Calgary and Edmonton, Alta., a distance of approximately 190 miles.

CANADIAN PACIFIC.—W. F. BRADEN, of Strassburg, Sask., has secured contract for building 40 miles of the new branch from Strassburg, Sask.

DOLGEVILLE & SALISBURY.—Articles of incorporation have been filed at Albany for this company with an authorized capital stock of $100,000. The road, which is backed

by the New York Central, will run from Dolgeville to the Salisbury Steel & Iron Co. ore properties in Herkimer County, New York.

ELKIN & ALLEGHANY.—Grading on this line, to be 80 miles long, from Elkin, N. C., to Marion, Va., will be started about July 10 and will be done by convicts. H. G. Chatham, Pres., Elkin, writes us that a great deal of the capital has been secured, surveys have been made and right-of-way is being obtained. J. W. Stevens, Elkin, is Ch. Engr. Noted on May 23.

GRAND RAPIDS TERMINAL BELT.—This company, which proposes to build a 14-mile belt line around Grand Rapids, Mich., will let contracts in about 30 days for a part of the work. The company proposes to finish the first 3½ miles this summer. Samuel Lazarus is Pres., St. Louis, Mo., and Edward H. Christ, Ch. Engr., Grand Rapids, Mich.

GRAND TRUNK.—A contract has been let to McRAE, CHANDLER & McNEIL for the construction of a second track on the St. Lambert-Ste. Rosalie branch between St. Lambert and Ste. Rosalie, Que., 33 miles.

GRAND TRUNK PACIFIC. — C. P. WRIGHT, of Portage la Prairie, Man., has been awarded contract for grading three miles of line between Portage la Prairie and Winnipeg, Man.

HEARD COUNTY.—Dr. W. S. Trent states that this company has been chartered to build a line from Roanoke, Ala., to Newnan, Ga., a distance of 40 miles. Nearly all of the right-of-way has been secured, though surveys have not been made. The officers are: Dr. J. W. Daniel, Franklin, Ga., Pres.; Dr. W. S. Trent, Franklin, Secy., and Frank S. Loftin, Atty.

KALAMAZOO, LAKE SHORE & CHICAGO.—We are officially advised that this line will build a branch line 4½ miles long from Toquin to Paw Paw Lake, Mich. New depot and terminal yards will be built at Kalamazoo and South Haven. James Grant is Secy., and B. Govett is Gen. Supt., both of South Haven, Mich.; D. P. Smith, Paw Paw, is Ch. Engr.

LOUISIANA.—The Southern Development Co. has let contracts for constructing a single track railroad between Monroe, La., and Hamburg and Crossett, Ark., via Bastrop, La. J. L. HARRIS, Monroe, La., is building three miles, and J. A. PURDUE & CO., Pine Bluff, Ark., is building 18 miles. In each case work is in progress. On June 20 the balance of 42 miles of construction will be let. Surveys have been completed and nearly all right-of-way obtained. J. M. Parker, Monroe, is Gen. Mgr.; E. T. Bond, Monroe, is Ch. Engr.

NEW YORK CENTRAL & HUDSON RIVER.—Contracts are to be let soon for the elimination of grade crossings on the Belt Line of this company in Buffalo, and bids for the joint railroad and city work will be received at the company's New York offices at once for the Middle Section, comprising the territory from North Main St. to the Scajaquada Creek at East Ferry St. There will be considerable heavy rock cutting in this section. The estimated cost with track depression and street elevation is $1,500,000; work to be finished in 18 months. Wilbur J. Wilgus, Fifth Vice-Pres., New York, is in charge of construction.

NORTHERN EMPIRE.—Application is being made to the Dominion Parliament, Ottawa, for a charter for this company, which proposes to build from the International Boundary, near Cardston, Alta., northerly through Lethbridge, Fort McMurray, Fort Vermilion, through the Yukon Territory, to a point on the International Boundary, between the Yukon Territory and Alaska. J. B. T. Caron, Ottawa, is Atty. for the applicants.

PENNSYLVANIA EASTERN. — Incorporated in Pennsylvania with a capital of $150,000 to build a line from a point in Pike County, Pa., near Matamoras, on the Delaware River, southwest paralleling that river via Dingman's Ferry, 14 miles. The directors include: William V. Hillard, of Milford, Pa.; F. W. Cross, C. G. Wood, F. H. Baker and J. W. Stickney.

ROBERT LEE & FORT CHADBOURNE.—This company has been incorporaetd in Texas to build from Robert Lee to Fort Chadbourne, both in Coke County, Texas, a distance of 14 miles. At Fort Chadbourne connection will be made with the Kansas City, Mexico & Orient Railway, now under construction between Sweetwater and San Angelo. Capital stock $250,000. Main office at Robert Lee. Principal incorporators are J. A. Spencer, S. C. Parsons and L. H. Brightman, of San Angelo, Tex., and C. C. Merchant and T. B. Lyster, of Robert Lee.

SAVANNAH, AUGUSTA & NORTHERN.—Contract was awarded on June 8 to the WILLIAM J. OLIVER CO., of Knoxville, Tenn., to build a railroad from Savannah, Ga., to Chattanooga, Tenn., with a cut-off to Augusta, Ga., the total distance of the road being 420 miles. The cost of construction of the line is estimated at $12,000,000. Work will begin at once. The new road will follow the Savannah River and its tributaries on the south side to the Blue Ridge Mountains.

WESTERN MARYLAND.—Surveys have been completed for a line to Wheeling from Cumberland and from a point on this line to Pittsburg. The Pittsburg line is estimated to cost about $100,000 a mile, while it is estimated that the Wheeling line can be built for about $60,000 a mile. The cost of the line to Pittsburg is heavy because of the fact that the line runs through a mountainous territory. B. F. Bush is Pres.

WISCONSIN MIDLAND.—This company proposes to build a road from Chester to Waupun, a distance of 2½ miles. Its capital stock is $30,000 divided into 300 shares of a par value of $100 each. The incorporators are: Thomas R. Mercein, Milwaukee; Charles Schley, Milwaukee; Ralph M. Friend, Milwaukee; Earle C. Juneau, Milwaukee; De Witt C. West, Beaver Dam.

WISCONSIN AND NORTHERN.—The route of this line, lately incorporated, with $100,000 capital, is from Superior to Duluth, 25 miles. The incorporators are: Charles E. Wales, Minneapolis; James A. Ferguson, Duluth; Philip G. Stratton, Superior; Lyman T. Powell, Superior, and Maude Z. Luse, Superior.

ELECTRIC RAILWAYS.

BAR HARBOR, ME.—Robert Amory, Secy. of Bd. of Directors of the Mount Desert Transit Co., Bar Harbor, advises us that construction contracts probably will be let this fall for building the proposed line from Ellsworth to Bar Harbor and Southwest Harbor, Me., about 40 miles. Surveys are now in progress. Right-of-way has not been secured yet. John S. Kennedy is Pres., 31 Nassau St., New York. W. E. Baker & Co., 27 William St., New York, are Engrs.

NIAGARA FALLS, N. Y.—The engineers of the International Ry. Co. are at work upon the extension of the Devils Hole line of the company, northward from Niagara Falls, extending from the Devils Hole, near the Whirlpool to Niagara University and the Riverdale Cemetery. T. W. Wilson, Ellicott Sq. Bldg., Buffalo, N. Y., is Gen. Mgr.

HARRISBURG, PA.—The Lewisberry & Strinestown Street Railway Co. plans an extension of its tracks from York County to this city, entering the lower end of Harrisburg. It is the plan to run the extension from New Market, York County, to New Cumberland, and to cross the river by a bridge between New Cumberland and this city, the western terminus of the bridge to be about at Cedar St. E. R. Sponsler is interested in the project. David Pepper, Jr., Land Title Bldg., Philadelphia, is Pres., and J. D. Duncan, of Philadelphia, is Secy. The company plans to begin preparations at once to secure the necessary franchises from this city and New Cumberland.

NORRISTOWN, PA.—The Montgomery Traction Co. will construct a trolley road between this town and Ambler, a distance of ten miles, with a possible continuation through to Willow Grove. The proposed route will run from Centre Square to Blue Bell, to Broad Axe and then to Ambler. W. O. Hay, Easton, is Pres. and Gen. Mgr.

PHOENIXVILLE, PA.—An ordinance has been signed by Thomas A. Evans granting the Philadelphia Interurban Electric Railway Co. permission to build and operate an electric railway within the borough limits. The ordinance calls for completion of road inside of two years. Rights-of-way have been secured between Pottstown and Phoenixville and work on the new line will begin immediately.

HUMBOLDT, TENN. — The Missouri, Tennessee & Georgia Railroad Co. has been reorganized and proposes to build a belt electric railway from Humboldt to Gadsden, Alamo, Johnson's Grove, Maury City, Crockett Mills, Eaton, Brazil and Gibson Wells, returning to Humboldt. Connection is to be made with the Illinois Central at Halls, Newbern or Dyersburg. The directors are Col. I. H. Dungan, Pres.; C. H. Ferrell, First Vice-Pres.; Dr. J. H. Thomas, Second Vice-Pres.; G. D. Ferrell, Secy.; O. C. Sharp, Treas.; W. W. Baird and J. P. Turner, all of Humboldt.

NASHVILLE, TENN.—D. A. Proctor, Ch. Engr., Nashville Interurban Ry. Co., Nashville, advises us the contracts will be let immediately for constructing an electric line between Nashville and Mount Pleasant, passing through Brentwood, Franklin, Spring Hill and Franklin. Surveys have been completed and right-of-way obtained. The line will be 56 miles long and the work will be heavy. Capital for construction has been secured. H. H. Mayberry, Franklin, is Pres.

AKRON, OHIO.—The Akron, Canton & Youngstown Ry. Co., with a capital stock of $200,000, has been granted a charter by the Department of State. The road will have terminals at the three cities named. It will pass through Summit, Portage, Stark and Mahoning Counties. The incorporators are: Z. W. Davis, I. H. Taylor, William Simpson, H. B. Stewart and M. L. Rackle.

NEW ALBANY, IND.—The Louisville & Northern Railway & Light Co. has a corps of surveyors in the field locating the line of an electric road to run from this city to French Lick and West Baden Springs by way of Paoli. When this is completed contracts for construction will be awarded. The proposed road will be 50 miles long and will pass through the most thickly populated portion of Southern Indiana. J. C. Henderson, New Albany, is Ch. Engr.

BAY CITY, MICH.—The Council has granted franchises to operate lines through this city to the Detroit, Bay City & Western Railroad Co. and the Bay City & Port Huron Railroad Co. The first company proposes to operate between this city and Caro, while the second plans to make its terminal at Port Huron, although Caro and other points along the projected D., B. C. & W. R. R. will be made. The Bay City & Port Huron Co. had a previous franchise, which had expired.

KALAMAZOO, MICH.—The Michigan United Rys. Co. is seeking a franchise in Detroit for its proposed line to connect Kalamazoo with Detroit. James R. Elliott, Lansing, Mich., is Vice-Pres. and Gen. Mgr.

BELLEVILLE, ILL.—An ordinance has been passed by the City Council of Belleville granting the Belleville & Interurban Ry. Co. the right to operate on South Illinois St. This line is to be constructed between Belleville and Smithton, and later on will be extended to other Southern points.

FRONTENAC, KAN.—The Girard Coal Belt Electric Railway & Light Co. has been granted a franchise by the City Council to build and operate an electric railway within the city limits.

ST. LOUIS, MO.—E. E. Barclay, Springfield, Ill., Secy. of the St. Louis, Terre Haute & Quincy Traction Co., advises us that this year a line is to be built by the company from Terre Haute, Ind., to Quincy, Ill., through Greenup, 245 miles. Right-of-way has been obtained and 150 miles have been surveyed. G. H. Lawrence, St. Louis, is Ch. Engr.

GREELEY, COLO.—The Greeley Electric Ry. Co. has been incorporated, and surveys are being made from Greeley to Denver and for a branch into the Lone Tree and Crow Creek country. When rights-of-way and terminals have been secured, the company will be financed by Colorado and Eastern capitalists. The promoters are John M. B. Petrikin, First National Bank; E. J. Decker, Union National Bank; John Mosher, D. B. Wyatt, all of Greeley, and Horace Clark, J. S. Flower, C. Church and others of Denver. The road will run parallel with and west of the Union Pacific, tapping a country heretofore unprovided with railroad facilities. The farmers along the proposed route have already pledged considerable of the right-of-way.

PORTLAND, ORE.—Under the name of the Portland Eastern Ry. Co., an electric line to Mount Hood has been incorporated by E. P. Clark, 222 West Fourth St., Los Angeles; Arthur H. Fleming, Los Angeles; E. B. Colwell, McKay Bldg., Portland; and Robert T. Linney and C. W. Miller, also of Portland, and in the employ of Mr. Clark. The capital stock is given at $5,000,000, and the purpose of the incorporation is to build, equip and operate a railroad between Portland and Clear Lake, Wasco County, at the base of Mount Hood.

BERKELEY, CAL.—The Oakland Traction Co. has made surveys for the new crosstown road on Dwight Way. The line will have a double track, and will begin at the corner of College Ave. and Dwight Way, thence to Sixth Ave., to University Ave., to the bay. By this route the Dwight Way cars will cross every traction line in Berkeley. The company holds a franchise for a line beginning at the Claremont Hotel at the head of Russell St., down to Hillegrass Ave., to Ashby Ave., thence to San Pablo Ave. Work on this line will be commenced shortly. W. F. Kelley is Gen. Mgr., Oakland, Cal.; J. P. Potter is Supt.; Edward M. Boggs is C. E.

SAN FRANCISCO, CAL.—The Geary St. municipal road will be reconstructed at once, and the Board of Supervisors has appropriated $720,000 to be expended in changing the cable system into a modern underground conduit system. Certain legal formalities must yet be gone through with before the work can be turned over to the engineers.

LOS ANGELES, CAL.—The Port Orange & Santa Ana Ry. Co. has been incorporated by Frank F. Johnson, Walter G. Hopkins, A. F. Lijehl, Joseph M. Fletcher, Eugene Germain, 326 South Main St., C. L. Fredericks, Harry P. Vandeveer and G. H. McCarthy. The capital stock is $500,000, and the amount subscribed $30,000. It will be a standard-gage electric railway. Work on construction will begin at once.

WALLACE, IDAHO.—Articles of incorporation of the Idaho & Northwestern Ry. Co. have been filed with the County Recorder. The incorporators are: A. E. Gallagher and W. J. Taylor, of Moscow, Idaho; Earl M. Rogers, of Coeur d'Alene; B. R. Lewis and Frederick B. Morrill, of Spokane. The principal place of business is to be Coeur d'Alene, and the number of directors is five, power being reserved to increase this to 15. The company is capitalized at $3,000,000. The line will be of standard gage, and will be constructed for operation by steam or electricity, or both. The estimated length is 80 miles, of which 15 miles will be devoted to branch lines. The line will run from Coeur d'Alene City past Chatcolet, and from there to Clarkia, Wash. Four branch lines will be constructed, one of which will be to Mica Bay.

ST. CATHARINES, ONT.—The Dunnville, Wellandport & Beamsville Electric Ry. Co. is applying to the different municipalities for franchises through Lincoln, Welland and Haldimand Counties from Port Maitland to Beamsville. It is proposed to construct about 40 miles of road, passing through Dunnville, Attercliffe, Wellandport, Bismarck, St. Ann's and Spring Creek. A branch is planned from Wellandport to Fonthill, passing through Boyle, Fenwick, Pelham Centre and Ridgeville. J. A. Ross is Local Representative.

PORT ARTHUR, ONT.—The City Council has decided to double track the municipal electric street railway system at a cost of approximately $55,000. Following are some of the materials required: 620 tons of 56-lb. rails; 18 tons of spikes; four tons of bolts; 18,480 ties; 14,868 lbs. of oo trolley wire; 280 trolley hangers; 300 double pull-overs; 1,500 lbs. of 7-strand No. 12 wire. J. McTeigue is Clerk.

FORT FRANCIS, ONT.—Proposals have been made by local capitalists to build an electric railway from here to Duluth. Power will be available upon the completion of the power dam at International Falls on Rainy River. W. H. Elliott, Fort Francis, is interested.

VANCOUVER, B. C.—James Milne, Gen. Supt. of the British Columbia Electric Railway Co., Ltd., states that the company contemplates building during the next two years about 60 miles of road from Westminster to Chilliwack, B. C. This does not include extensions to the lines in Vancouver, Westminster and Victoria.

LIGHT AND POWER PLANTS.

(denotes that this work is advertised in Engineering News.)*

LIVERMORE, ME.—The Livermore Falls Electric Light & Power Co. has changed the location of its power station from the Umbagog mill to the Livermore mill on the Falls side of the river. The company has recently installed a 1,300-HP. water-wheel and a new generator of 75-KW. capacity. The old plant will be held in reserve to use in case of emergency. Another wheel and generator are being installed in the Liverm[illegible] to generate electricity to be trans[illegible] to Chisholm to operate the Otis mi[illegible] that place.

WRENTHAM, MASS.—The [illegible] are reported to be in favor of co[illegible] a municipal electric light plant.

BROOKLINE, MASS.—Hen[illegible]ward and Phillip F. Parker have been [illegible] to secure estimates for establish[illegible] municipal lighting plant.

NEW YORK, N. Y.—The f[illegible] are the bids received June 1 by Bure[illegible]ards and Docks, Navy Dept., Washing[illegible] C., for two motor generator sets and [illegible]ories for Navy Yard, New York, N. Y. [illegible]cification No. 1543): Northern Elect[illegible] Mfg. Co., Madison, Wis., $11,900; Gener[illegible]tric Co., Schenectady, $10,650, and [illegible]inghouse Electric & Mfg. Co., 1507 Co[illegible]al Trust Bldg., Baltimore, Md., $11,49[illegible].

Press reports state that the [illegible] power plant which the Long Acre E[illegible] Light & Power Co., Walter H. Knight, [illegible]ngr., will build on the site of the old H[illegible] Hospital will cost about $8,000,000. It w[illegible]ntain ten turbine engines. The plant to [illegible]rected at Second Ave. between 47th and [illegible] Sts., will be used as a substitute in case [illegible]ergency.

The following are the bids re[illegible] June 10 by C. B. J. Snyder, Supt. Sch[illegible]ldgs., for installing electric equipment i[illegible]dition to School 41, Boro. of Manhatta[illegible] T. Fred. Jackson, Inc., $4,600; L. F[illegible]NN, 725 Broadway, $4,540 (awarded co[illegible]); Gore, Duggan Engineering Co., $4,72[illegible] and Griffin & Co., $4,692.

Bids are asked until June 21 [illegible] George B. McClellan, Mayor, Chn. Armor[illegible] Bd., for furnishing and installing elec[illegible] lighting fixtures, etc., in Twelfth Regim[illegible] Armory, Boro. Manhattan. Robinson & Knust are Archs., 164 Fifth Ave.

NEW YORK, N. Y.—The following bids have been received for install[illegible] electric equipment in office and storage building for the Board of Education on north side of Livingston St., east of Red Hook Lane, Boro. of Brooklyn: Commercial Construction Co., No. 1 Madison Ave., New York, $9,461; Griffin & Co., 150 Nassau St., New York, $9,697, and T. Frederick Jackson, 592 Columbus Ave., New York, $9,400.

NEW YORK, N. Y.—The Bureau of Yards and Docks, Navy Dept., Washington, has awarded to the GENERAL ELECTRIC CO., Schenectady, N. Y., contract for furnishing two motor generator sets and accessories for the New York Navy Yard, at $10,650.

NEWARK, N. J.—The Lighting Committee of the Board of Public Works June 6 voted to enter into a new contract with the Public Service Corporation for street lighting, for a term of four years from September, 1908, at the rate of $70 per lamp per year. Under the agreement to be made, the Public Service Corporation will grant a rebate of $20 from the present rate of $95 per lamp during the time the existing contract has to run.

JERSEY CITY, N. J.—The Bell Electric Motor Co., of Jersey City, has been chartered, with a capital stock of $25,000. The incorporators are: Robert J. Stell, Andrew C. Snyder and Abraham L. McCulloch.

MORRISTOWN, N. J.—The proposed electric light plant will cost about $200,000. P. V. Stryker, of Bernardsville, N. J., is Gen. Mgr.

EAST PITTSBURG, PA.—Bids are asked by Frank A. Geis, Chn. Water and Light Com., until 8 p. m., July 1, for lighting East Pittsburg with 40 electric arc lights.

SCRANTON, PA.—Plans have been completed for construction of power-house for the Scranton Electric Light and Heating Co. A. J. Duffy is Ch. Electrician, Scranton.

SALISBURY, MD.—The Home Gas Co. has petitioned the Council for franchise to construct gas plant.

WASHINGTON, D. C.—Bids were received as follows June 3, at the U. S. Soldiers' Home, Washington, D. C., for piping and hot water distribution system, wiring and electrical distribution system in the power-house, and installation of ice and refrigerating plant in the mess hall and hospital buildings, from: (A) S. Faith & Co., Philadelphia; (B) Harry Alexander, New York; (C) York Mfg. Co., York, Pa.; (D) John W. Danforth, Buffalo, N. Y.; (E) Henry Voight Mch. Co., Louisville, Ky.; (F) Evans-Almirall Co., New York; (G) Steel & Condit, Jersey City; (H) E. A. Rutzler Co., New York; (I) J. W. Buchanan & Co., Philadelphia; (J) Carbondale Machine Co.; (K) National Electric Supply Co., Washington, D. C.; (L) McKay Engineering Co., Baltimore, Md. Complete installation of piping for the power plant building for the central power plant, the condensing apparatus, the distributing and circulating pipe systems for hot water circulation and medium pressure steam, (D) $195,475; (F) $202,793; (H) $234,187. Complete installation of piping for power plant in the power plant building proper, (D) $103,781; (F) $91,000; (H) $98,791. Complete installation of distributing and circulating pipe systems, (D) $109,181; (F) $80,193; (H) $66,562. Complete installation of manholes for piping and electric wires, (D) $98,325; (F) $30,000; (H) $89,783. Complete installation of the piping for the central power house, the condensing apparatus, the distributing pipe systems, with all manholes, from the central power plant to the various buildings and also the low pressure steam heating apparatus in the laundry at the central power plant, (A) $230,000; (H) $210,784. Complete installation of condensing plant with all appliances and pipe work to be used in direct connection with the condensing apparatus, (H) $11,084. Complete installation of the electrical distribution system for the electric light and power service from the power house to the various buildings; (B) $88,200; (I) $90,504; (K) $89,103; (L) $104,950. Same substituting pole lines, (B) $70,300; (L) $98,450; (I) $[illegible]2,838; (K) $75,120. Complete installation in the mess hall of the ice-making and refrigerating machinery, (C) $14,250; (E) $10,880; (G) $9,300; (J) $11,600. Same for hospital, (C) $8,250; (E) $5,470; (G) $4,500; (J) $7,700.

TRYON, N. C.—The Tryon Electric Light, Water & Power Co., Todd Russell, Gen. Mgr., is reported to have prepared preliminary survey for construction of power plant on Pacolet R. Estimated cost, $65,000.

ATLANTA, GA.—The Special Council Committee recommended Electric Lighting May 28 accepted the proposition of the GEORGIA RY. & ELECTRIC Co. for lighting the city for five years at the following bid: For arc lamps, 800 per lamp first year, $59 second year, $58 third year, $57 fourth year, and $56 fifth year; incandescents, $28 per lamp for first year, $27.50 second year, $27 third year, $26.25 fourth year, and $26 fifth year. The new contract will go into effect on the last of August, 1908.

BLAKELY, GA.—Plans are being made for increasing the capacity of the municipal electric light plant, which include installation of 250-K.W., 3-phase, 60-cycle, direct-connected generator and overhauling all the lines. J. N. Greer, Mgr.

NEWNAN, GA.—Contracts for equipment for the electric light station have been awarded as follows: Two engines, 225 HP. each were awarded to the HARRISBURG FOUNDRY & MACHINE WORKS, Harrisburg, Pa.; two direct-connected, 150-KW. alternators to CROCKER-WHEELER CO., Ampere, N. J., and switchboard for the equipment to FT. WAYNE ELECTRIC WORKS, of Ft. Wayne. Total amount, $11,940. W. B. Pringle is Secy. Water and Light Com.

OCALA, FLA.—The question of installing engine, generator and boiler in the municipal electric light plant is now under consideration. E. C. Bennett is Supt.

PENSACOLA, FLA.—The Bureau of Yards and Docks, Navy Dept., Washington, has awarded to the BABCOCK & WILCOX CO., 85 Liberty St., New York, contract for installing boiler room machinery for the central power plant at the Pensacola Navy Yard, at $33,476.

CANTON, MISS.—Improvements and additions to the municipal electric lighting plant are reported to be under consideration. The system will be changed from 60 to 133 cycles, and the present machines will be replaced by a direct-connected outfit. John T. Sharp, Jr., is Mgr.

PLAQUEMINE, LA.—The Plaquemine Electric Light & Power Co. will increase the capacity of its plant by installation of 100-HP. producer gas engine, one 50-KW. alternating-current, 2,200-volt, 2-phase, 60-cycle generator, and 30-HP. motor pump. J. H. Savage is Pres.

BOLIVAR, TENN.—The proposition to extend the lines of the municipal electric light plant to the Western Hospital for the Insane, a distance of three miles, is now under consideration. Benjamin Bailey is Supt.

LEXINGTON, KY.—The Central Kentucky Natural Gas Co. will erect a power pump-house in the gas fields to cost about $70,000. John Tonkins is the general manager.

The City Council has appropriated $30,000 for a lighting and heating plant for the City Hall.

LOUISVILLE, KY.—The Lower Board of the City Council has set aside about $30,000 for installing electric light and heating plant in the city hall annex.

ARLINGTON, OHIO.—George Champe, 610 The Nasby, Toledo, is Engr. for the electric light plant to be constructed. Estimated cost, $10,000. O. T. Carter is City Clk.

SALINEVILLE, OHIO.—The Salineville Electric Light, Heat & Power Co. contemplates installing 18-KW., 60-cycle, alternating-current unit to carry the after midnight load. J. Homer Boals is Ch. Engr.

GEORGETOWN, OHIO.—Bids are asked by the Board of Trustees of Public Affairs, W. A. Eylar, Clk., until July 13, for boiler, brick or concrete chimney, arc and commercial pole line, arc lamps, switchboard, transformers, etc., for electric light plant now under construction. Geo. Hornung, 612 Johnson Bldg., Cincinnati, is Engr.

TOLEDO, OHIO.—Bids are asked until June 24 by the County Commissioners, J. W. Kerr, Chn., for furnishing materials required in installing boilers, dynamos, machinery and appurtenances in the heating and power-house to be erected at the Lucas County Infirmary, also the necessary conduits and piping outside the said power-house.

Bids also are asked at the same time for furnishing material and erecting heating and power-house, including stack, at the Lucas County Infirmary.

BROOKVILLE, IND.—The Brookville Electric & Ice Co., recently incorporated with a capital of $75,000, will ask for bids soon for construction and equipment of an electric light and artificial ice plant. Charles Andrews is Pres.

FORT BENJ. HARRISON (Lawrence postoffice), IND.—The lowest bids received June 1 by Maj. George H. Penrose, Q. M., for electric light system at this post were submitted as follows: The Sanborn-Marsh Electric Co., of Indianapolis, for electric apparatus, $6,952, and inside wiring, $3,138; the McBride Electric Co., for outside wiring, $12,449; the Elmer H. Catlin Co., for fixtures, $9,924; and the Indianapolis Light & Heat Co., of Indianapolis, for furnishing current for one year.

Bids are asked by Capt. Geo. H. Penrose, Q. M., until June 27 for electric current, electric lighting system, including building for transformer substation, and lighting fixtures.

FARMERSBURG, IND.—A. D. Torr, owner of the local electric light plant, is contemplating installation of 300-HP. engine to increase capacity of the plant.

BROOKVILLE, IND.—The Electric Light & Ice Company has been incorporated, with J. D. Hall, Pres., and Charles Andrews, Secy. The company proposes to establish an electric and ice plant.

CLAY CITY, IND.—Bids are being received by the Clay City Light Co. for electric light plant, recently destroyed by fire. C. F. Nickey is Mgr.

PONTIAC, MICH.—The Pontiac Lighting Co. has purchased the plant and holdings of the Pontiac Standard Lighting Co. The change in ownership took effect June 1. The contract for street lighting held by the Standard Co. has been assigned to the Pontiac Lighting Co. The company will make extensive improvements and will remodel the plant. E. C. Bechtel, of Toledo, Ohio, has been apponted Consult. Engr.

HANCOCK, MICH.—E. T. Sykes, of Minneapolis, Minn., is preparing plans for municipal electric light plant.

IRON RIVER, MICH.—The Menominee Range Power & Development Co., of Iron River, has been incorporated with capital of $200,000, by A. J. Lytle, Isaac W. Byers, E. S. Coe and others, of Iron River. The company has a franchise to light the village. It is its intention to improve one of the water powers in the vicinity of the town.

DAVISON, MICH.—S. Phelps has petitioned the Council for franchises to install and operate an electric light and power plant.

HILLVIEW, ILL.—All bids opened June 4 for power-house and pumping station have been rejected, and new bids will be received until June 21.

MOLINE, ILL.—The People's Power Co., F. W. Reimers, of Davenport, Supt., is reported to have decided to expend about $250,000 in improvements.

DAVENPORT, IOWA.—The Peoples' Light Co. is reported to have decided to expend about $230,000 in improvements.

BRAINARD, MINN.—The Brainard Milling Co. is considering the question of constructing an electric light plant.

CHISHOLM, MINN.—A day circuit will probably be established at the electric light plant. A gas engine will be installed.

DAWSON, MINN.—The Dawson Light, Power & Water Co. will soon install an 80-KW., 125-volt generator belted to 100-HP. engine in its plant and will also extend its lines. T. W. Miller is Mgr.

FORT SCOTT, KAN.—The Fort Scott Gas & Electric Co. will start work at once on improvements to its plant, which will cost about $20,000. F. D. Martin, Fort Scott, is Mgr.

STANBERRY, MO.—The Stanberry Electric Light plant has been purchased by John A. Showen for $18,000. The plant will be put into operation and improved.

OZARK, ARK.—The citizens are reported to be in favor of constructing a municipal electric light plant.

RUSSELLVILLE, ARK.—The Southern Engineering & Construction Co. is reported to have secured a franchise to construct a water plant and an electric light system. The company also plans to construct an electric railway from here to Dover.

HEREFORD, TEX.—It is proposed to construct electric light plant and gas works. Cost, $8,000.

DALLAS, TEX.—The Commissioners' Court of Dallas County has authorized the County Auditor to advertise for bids for installing an electric light plant at the county court-house.

COLORADO SPRINGS, COLO.—The Idaho-Nevada Power Co. has been incorporated by Orlando B. Willcox, Horace G. Lunt and John F. Adams, of Colorado Springs, with a capital of $7,500,000 to furnish light and power to mining companies in Idaho and Nevada, construct electric railway and light town.

CENTRALIA, WASH.—George W. Gregory, of Seattle, is reported interested in construction of water-works, electric light plant, and street railway connecting Centralia and Chehalis.

SPOKANE, WASH.—The Washington Water Power Co., J. B. Fisken, Supt., is reported to have decided to commence work this fall on developing upper falls of Spokane River. A new power-house will be constructed.

TACOMA, WASH.—The Tacoma Gas Light Co. is reported to have decided to expend about $75,000 in improvements, including laying about twelve miles of mains.

SACRAMENTO, CAL.—C. L. Cory, of the University of California, Berkeley, is having plans prepared for a municipal electric plant to be constructed at Front, Second and U Sts. Estimated cost, $150,000.

ALAMEDA, CAL.—The Electricity Committee has reported to the City Council its proposed plans for operation of the proposed municipal electric light plant. The plan calls for construction of a fireproof building, installing of a new unit, new boiler, and extension of power service. The estimated cost is $58,000. In case this amount is allowed, $18,000 will be expended for the new building, of steel, $25,000 for the new unit, $6,000 for the boiler, $1,800 for improvements to the power service, and $1,500 for improving the lighting service.

SAN BERNARDINO, CAL.—The Victor lands have been transferred to the Westwater Power & Water Co., recently incorporated for $600,000, paid up by A. E. Poole, W. G. Hopkins, A. C. Lowe, Robt. Westwater and J. P. Scott. An auxiliary company will be capitalized at $2,000,000 to construct the reservoir. It is proposed to tunnel the mountains and bring water to the west side, develop electrical energy and supply communities in this valley and on the desert.

CRESCENT CITY, CAL.—The Crescent City Light, Water & Power Co. will probably install hydro-electric power plant near mouth of Craigs Creek. J. W. Manley, of Crescent City, is Supt. and Ch. Engr.

ST. HELENA, CAL.—Henry Brown, of Napa, is reported to have petitioned the City Trustees for franchise to establish an electric light system in St. Helena. He also proposes to apply for franchises in Calistoga and Vallejo.

STONYFORD, CAL.—The Snow Mountain Power and Light Co. proposes to build plant about three miles from the city. Albert Lindstrom and Charles Glenn are interested.

OAKLAND, CAL.—The Great Western Power Co. will expend $8,000,000 erecting power plant in East Oakland.

TORONTO, ONT.—The Board of Control has instructed C. H. Rust, City Engr., to make estimates of cost of distribution plant for electric power and also to report on best location for such a plant. The estimates will be based on the city's taking 15,000 HP.

ARNPRIOR, ONT.—Thos. Moran is reported to have secured franchise for electric light plant.

GALETTA, ONT.—Thomas Moran, of Arnprior, Ont., has secured a franchise to develop water power at Galetta, and will supply light and power.

WINNIPEG, MAN.—Bids are asked until June 26 by Magnus Peterson, Secy. Civic Bd. Control, for supplying 100 arc lights and two regulators for the street electric lighting system. F. E. Cambridge is City Electrician.

VANCOUVER, B. C.—The British Columbia Power & Electric Co., the Canadian Pacific Lumber Co., of Port Moody, B. C., and the Port Haney Lumber Co., Port Haney, B. C., have been given permission to develop water powers.

BRIDGES.

(denotes that this work is advertised in Engineering News.)*

DUNKIRK, N. Y.—The City Council has accepted the proposition of the Buffalo & Lake Erie Traction Co. for replacing the iron bridge on the Lake Road by a steel-rail and concrete bridge, paved with brick.

*NORTH HEMPSTEAD (L. I.), N. Y.—Bids are asked by the Town Board until 3.30 p. m., July 2, for constructing two steel and concrete bridges at Plandome Mills, near Manhasset, in the town of North Hempstead. J. D. C. Mackay is Engr., Port Washington, N. Y.

PASSAIC, N. J.—The Board of County Freeholders June 6 awarded contract for constructing bridge over Passaic River at Monroe St., Passaic, to SCHWIERS & SUTTON, for $39,200.

JERSEY CITY, N. J.—The Board of Freeholders, Walter O'Mera, Clk., has awarded contract for constructing 14th St. Viaduct to the OWEGO BRIDGE CO., of Owego, N. Y. for $478,678.

TRENTON, N. J.—The Township Committees of Hamilton and Crosswicks Townships have decided to replace bridge over Crosswicks Creek, between the line of Mercer and Burlington Counties, with a steel truss structure with reinforced concrete floor system and 5-ft. cement walk on each side. Plans will be prepared by the two township committees, and will be submitted to the two Boards of Freeholders for approval. The cost will be shared by Burlington and Mercer Counties.

TOMS RIVER, N. J.—Bids are asked by the County Board of Chosen Freeholders, James E. Otis, Director, until noon, June 25, for constructing highway bridge, known as White's bridge, across north branch of Toms River, in Jackson Township, at county road leading from Lakehurst to Lakewood. James D. Holman, at Whitesville, is Chn. Bridge Com.

NEWARK, N. J.—The construction of a bridge over Passaic River at Elwood Ave. is reported contemplated. M. R. Sherrerd is City Engr.

ALLENTOWN, PA.—The construction of a bridge over the deep ravine between Allentown and South Allentown is reported to have been decided upon by the Allentown & South Allentown Bridge Co. and the Allentown & South Allentown St. Ry. Co. The bridge will do away with the present extreme heavy grade. Estimated cost, $400,000. H. F. Bascom is City Engr.

READING, PA.—The FERRO CONCRETE CO., of Philadelphia, has been awarded the contract by the County Commissioners to construct Kershner's bridge, across Stoyer's Creek, near Hamburg, at $3,145, and the Temple bridge, in Muhlenberg, at $4,185.

CLARION, PA.—Bids are asked by the County Commissioners, H. M. Hufnagel, Clk., until 3 p. m., June 27, for constructing steel bridge across Clarion River. Fred. V. Brown is Engr.

PITTSBURG, PA.—Bids are asked by F. P. Booth, County Controller, until 10 a. m., July 1, for repairing floors and approaches of various county bridges.

SHARON, PA.—The County Commissioners have awarded the contract for constructing bridge in Sharon, across Shenango River, to the CANTON BRIDGE CO., of Canton, Ohio. McINTYRE & SONS secured the contract for the stone work. The entire cost of the bridge will be about $75,000.

CHESAPEAKE CITY, MD.—The County Commissioners will build an iron bridge over the stream at Waterford on the Elkton-Chesapeake Road.

PORT DEPOSIT, MD.—The Conowingo Bridge Co. will rebuild the bridge crossing Susquehanna River near Port Deposit, recently destroyed. Charles McConkey, at Conowingo, is Secy.

WASHINGTON, D. C.—Bids were received as follows June 15 by the District Commissioners for construction of steel and concrete bridge over Baltimore & Ohio. R. R., near Washington: (a) bridge complete; (b) piles in place; (c) excavation; (d) foundation concrete; (e) concrete above foundations; (f) steel reinforcement: Abbott-Gamble Co., 32 Broadway, New York, (a) $15,995; (b) 55 cts. per lin. ft.; (c) $1.70 per cu. yd.; (d) $9; (e) $12; (f) 5 cts. per lb. Cranford Paving Co., 26th and E Sts., N. W., Washington, (a) $15,450; (b) 20 cts.; (c) $1; (d) $7.50; (e) $9.75; (f) 2¼ cts. Penn Bridge Co., Bond Bldg., Washington, (a) $15,850; (b) 30 cts.; (c) $1.50; (d) $6; (e) $12; (f) 2½ cts. C. B. Clark & Co., Baltimore, (a) $18,470; (b) 45 cts.; (c) $1.75; (d) $8; (e) $10; (f) 3¼ cts. Jas. J. Overn, for McMullin & McDermott, Washington, (a) $13,700; (b) 40 cts.; (c) $1.50; (d) $6.60; (e) $9.50; (f) 5 cts.

PARKERSBURG, W. VA.—The contract for constructing superstructure of East St. bridge has been let to the McCLINTIC-MARSHALL CONSTRUCTION CO., of Pittsburg, Pa.

NORFIELD, MISS.—The Board of Supervisors have adopted plans for constructing steel bridge across Bogue Chitto River, at Norfield. Bids are asked until the July meeting. E. P. Alsbury & Son are Archs.

NASHVILLE, TENN.—Bids are asked by the Cumberland River Bridge Committee, Jas. K. Rains, Chn., until noon, July 10, for constructing concrete piers for two highway bridges. Approximate yardage at each bridge, 6,000 yds. Bids are also asked for furnishing materials and building complete of reinforced concrete viaduct approaches, retaining walls, etc., for said bridges. Approximate yardage 6,000 yds. each bridge. Also for furnishing borrow pits and the filling of certain parts of the approaches to said bridges. Approximate yardage of filling at each bridge, 45,000 cu. yds.

KINGSPORT, TENN.—The South & Western Ry. Co. will construct two steel bridges across Holston River. M. J. Caples, Johnson City, Tenn., is Gen. Mgr. and Ch. Engr.

ATHENS, OHIO.—Bids are asked until June 22 by the Board of County Commissioners for constructing 2-span steel bridge across Hocking River at Athens. E. R. Walker is County Audr.

BUCYRUS, OHIO.—The MODERN CONSTRUCTION CO., of Fremont, has been awarded contract for constructing the Lane St. bridge, at $6,962. C. P. Bryant is City Engr.

WAPAKONETA, OHIO.—The contracts for constructing two bridges over St. Marys River have been awarded as follows: Hydaker bridge, the CENTRAL STATES BRIDGE CO., of Indianapolis, for $5,048, and Johns bridge, the MASSILLON BRIDGE CO., of Toledo, for $3,850.

UPPER SANDUSKY, OHIO.—Bids are asked by J. N. Troxler, County Audr., until noon, June 28, for rebuilding stone abutment in Crane Township.

CLEVELAND, OHIO.—Bids are asked by the Board of Public Service, A. R. Callow, Secy., until noon, June 24, for constructing substructure and approaches of bridge on Eagle Ave., S. W., over the Baltimore & Ohio Railway tracks. W. J. Carter is City Engr.

DAYTON, OHIO.—The construction of bridge over Miami River to connect Dayton with Dayton View is being considered. Robert E. Kline is City Engr.

CINCINNATI, OHIO.—The following are the bids received by the Board of Public Service, M. J. Keefe, Clk., June 4 for furnishing material and constructing superstructure of Eighth St. bridge over Cincinnati, Hamilton & Dayton Railway tracks: BRACKET BRIDGE CO., 518 Walnut St., Cincinnati, $35,270 (awarded contract); Marshall Construction Co., $35,350; and Capitol Concrete Co., $35,800. Charles N. Dannenhower is Ch. Engr., Bd. Pub. Service.

COLUMBUS, OHIO.—The CAPITOL CONSTRUCTION CO., of Columbus, has secured contract for constructing superstructure of Leonard Ave. viaduct, including handrail, for $30,543. Henry C. Maetzel is City Engr.

ENTERPRISE, OHIO.—Bids are asked by the County Commissioners until 1 p. m., July 6, for constructing steel superstructure across Hocking River, at Logan-Lancaster Road, in Falls Township. James L. Martin is County Audr. James Bebout is County Surv.

INDIANAPOLIS, IND.—Bids are asked by the County Commissioners until 10 a. m., July 12, for constructing three concrete bridges.

MUSKEGON, MICH.—The County bridge across Escanaba River will be repaired or rebuilt.

BELLEVILLE, ILL.—The city will widen bridge across Richland Creek on North Richland St. and put sidewalk on each side. Plans will be ready about the end of June. Fred. Deutschmann, Jr., is City Engr.

RACINE, WIS.—The Common Council has ordered bridge constructed across Root River to connect Herrick and Lafayette Sts. Estimated cost, $14,000. P. H. Connolly is City Engr.

GRANTVILLE, KAN.—The Commissioners of Jefferson and Shawnee Counties have reached an agreement for constructing bridge across Kaw River south of Grantville. Estimated cost, $16,000.

ST. LOUIS, MO.—The St. Louis & San Francisco R. R. Co. will construct highway bridge with 24-ft. roadway over its tracks at Fyler St. J. F. Hinckley, at St. Louis, is Ch. Engr.

BASTROP, TEX.—Several bridges in Bastrop County have been destroyed by floods, and will be rebuilt.

WALLISVILLE, TEX.—Several bridges in Chambers County have been destroyed by floods. Surveys for new structures are being run.

LINDSAY, IND. T.—The Lindsay Bridge Co., Inc., has let contract to the KANSAS CITY BRIDGE CO. for erection of three steel bridges across Washita River. Total cost, about $8,200.

SPOKANE, WASH.—The Wallace-Coates Engineering Co., of Chicago, Ill., have prepared plans for constructing reinforced concrete bridge at Monroe St. Estimated cost, $320,000.

WENATCHEE, WASH.—Bids will soon be asked by the County Commissioners for construction of trestle bridge 75 ft. long, single span, across Warm Springs gulch on H. D. Hall Road No. 142.

MONITOR, WASH.—The County Commissioners will erect steel bridge over the river this season.

BREMERTON, WASH.—Contract for construction of bridge on Silverdale-Tracyton Road has been let to C. H. BRAENDLEIN.

PORT ORCHARD, WASH.—Bids are asked by the County Commissioners until July 1 for construction of bridge 802 ft. long at Brown's Bay.

OLYMPIA, WASH.—Fifth St. will have a 40-ft. bridge across the arm of Swantown Bay and be graded as far as Pear St.

KLAMATH FALLS, ORE.—Bids are asked by the County Court, George Chastain, Clk., until July 1, for reconstructing the county bridge across Wood River, known as the Melluse bridge.

LOWELL, ORE.—The County Court has decided to build bridge at or near Hyland ferry, between Lowell and Dexter.

LOS ANGELES, CAL.—Bids are asked by the County Supervisors until 2 p. m., June 24, for construction of pile trestle bridge across San Jose Creek on Puente Ave., in the Rowland Road District, Los Angeles County. C. G. Keys is County Clk.

DAGGETT, CAL.—Bids are asked by the County Supervisors until 11 a. m., June 24, for construction of bridge over Mojave River about ½ mile north of the Daggett Station on Santa Fe R. R. and the Salt Lake R. R., in the First Road District. Bridge is to have a total length of 253 ft., center to center of end piers, and is to consist of two 126-ft. spans of through pin connected 6-panel Pratt truss bridges, resting upon cylinder piers with concrete bulkheads. Charles Post is County Clk.

NEEDLES, CAL.—A bridge will be constructed over the Colorado River at Needles by the Atchison, Topeka & Santa Fe R. R. Co. A. F. Robinson, of Chicago, Ill., is Bridge Engr.

OAKLAND, CAL.—We are officially informed that the Board of County Supervisors, John P. Cook, Clk., has let contract for constructing concrete bridge across Los Positos Creek on the Dublin and Livermore Road to Thomas B. Russell, of Haywards, Cal., for $6,945. P. A. Haviland is County Surv.

STOCKTON, CAL.—Bids are asked by the Board of Supervisors, Eugene D. Graham, Clk., until 10 a. m., July 2, for constructing two bridges.

HAGERMAN, N. MEX.—Bids are asked by the Board of County Commissioners, W. M. Atkinson, Chn., until July 8, for constructing metal and concrete bridge, 260 ft. long, with 16-ft. roadway, across Pecos River, near Hagerman.

OGDEN, UTAH.—Bids are asked by the Boards of County Commissioners of Davis and Weber Counties until June 26 for furnishing and erecting steel bridge.

LETHBRIDGE, ALTA.—The Canadian Pacific Ry. Co. will erect bridge over Belly River at Lethbridge, Alta. Estimated cost, $1,000,000.

OTTAWA, ONT.—Bids are asked by the Trans-Continental Ry. Comrs., P. E. Ryan, Secy., until noon, June 25, for constructing five steel bridges in District "B."

BUILDINGS.

(denotes that this work is advertised in Engineering News.)*

HOOKSET, N. H.—T. Edward Sheehan, Arch., 945 Tremont Bldg., Boston, Mass., has been engaged to make plans for a brick and stone school, convent and chapel for the Sisters of Charity who are conducting Mount St. Mary's Academy, Hookset. Estimated cost, $150,000.

CONCORD, N. H.—The Trustees of the New Hampshire State Hospital have awarded the contract for extensions and additions to present buildings to CHARLES L. FELLOWS & CO., of Concord, for $123,000.

BOSTON, MASS.—Bids were received on June 10 for constructing the proposed Franklin Union Building at the corner of Appleton and Berkeley Sts. The bids were opened in the office of R. Clipston Sturgis, 120 Boylston St. The bids were as follows: C. H. Belledeu Co., 10 Province Court, $354,554; Benjamin Fox, Devonshire Bldg., $338,600; George A. Fuller Co., Board of Trade Bldg., $327,500; Horton & Hemenway, 683 Atlantic Ave., $356,840; Mack & Moore, 22 Chapman Pl., $352,900; Angus McDonald, 135 Pleasant St., $344,323; McGahey & O'Connor, $360,793; McNeil Bros., $339,900; Maguire & Penniman Company, $354,051; A. C. Whitney, 18 Post-office Sq., $341,342; Whiton & Haynes Co., John Hancock Bldg., $346,500; L. D. Willcutt & Son, $339,800; Woodbury & Leighton, 166 Devonshire St., $319,771.

MERIDEN, CONN.—Bids were received as follows June 13, for construction of a U. S. post-office building at Meriden, Conn.: Richardson & Burgess, Colorado Bldg., Washington, $101,574; W. H. Wales-Lines Co., Meriden, Conn., $94,625; E. K. Watson Co., Warren, R. I., $96,649; Ambrose B. Stanard, St. James Bldg., New York, $100,000; Conners Bros. Co., Lowell, Mass., $96,200; Wheaton Building & Lumber Co., Putnam, Conn., $88,500; Charles McCaul Co., Philadelphia, $99,799; Fissell & Wagner, St. James Bldg., New York, $93,997; Maguire-Pennimore Co., Providence, R. I., $100,041; Woodbury & Leighton Co., 116 Devonshire St., Boston, $92,945.

NEW YORK, N. Y.—Plans have been filed with the Buildings Superintendent for a 6-story apartment house to be built for John W. Kight at the corner of Broadway and 145th St. It will have accommodations for 40 families. It is to cost $200,000. Neville & Bagge, 215 West 125th St., are Archs.

The following bids were received June 13 by Louis F. Haffen, Pres. Boro. of the Bronx, for erection and completion of a free public bath building, to be erected on plot of land situated on the corner of Elton Ave. and 156th St., in the Boro. of the Bronx: F. T. Nesbit Construction Co., 116 Nassau St., $43,900; William Werner, 892 Forest Ave., $161,800; Kelley & Kelly, 45 East 42d St., $153,100; Calumet Construction Co., 15 East 59th St., $138,619; T. J. Waters, Park Ave. and 125th St., $172,000; George Hilderbrand, 38 Park Row, $164,300.

The Commissioner of the Department of Corrections has accepted from a jury of architects a design for a new $4,000,000 penitentiary on Riker's Island. The successful architects are Trowbridge & Livingston, 424 Fifth Ave. The jury consisted of Walter Cook, Homer S. Peabody, and W. R. Mead. The $4,000,000 will not be spent at once, but a million will be used up on the first unit, and the structure completed as soon as the rest of the money is obtained. Each unit will be complete in itself. There are to be 2,000 cells in the building.

NEW YORK, N. Y.—The following bids were received on June 17, by C. B. J. Snyder, Supt. School Bldgs., for general construction, etc., of additions to and alterations in Public School No. 75, on corner of Evergreen Ave. and Grove St., Boro. of Brooklyn: Matthews Realty & Construction Co., Brooklyn, $220,000; Patrick Gallagher, 1183 Broadway, $211,800; Thomas Cockerill & Son, 147 Columbus Ave., $211,850; George Hilderbrand, 38 Park Row, $208,777; James McArthur, 22 Ormond Pl., Brooklyn, $211,461; P. J. Bennan & Son, Fuller Bldg., $214,000; George F. Driscoll, Richmond, Staten Island, $214,200; John Auer & Son, 957 Broadway, Brooklyn, $211,965; Peter Cleary, 235 Bainbridge St., Brooklyn, $212,000.

NEW YORK, N. Y.—Plans for the new administration building of the New York Zoological Society in Baird Court in the Zoological Garden, Boro. of the Bronx, are about completed, and the contract for it will be awarded as soon as funds are available. Plans for the biological building also are now ready, and only await the necessry funds to be placed under contract.

NEW YORK, N. Y.—Bids are asked until 11 a. m., July 1, by C. B. J. Snyder, Supt. School Bldgs., for alterations, repairs, etc., for Public Schools Nos. 10, 18, 29, 32, 39, 49, 53, 60, 61, 63, 65, 68, 72, 73, 74, 75, 84, 108, 117, 123, 125, 144, Boys' High School and Truant School, Boro. of Brooklyn; for furnishing and erecting 15 portable school houses on the premises of Public Schools Nos. 95, 96 and 99, and in the vicinity of King's Highway and East 13th St., Boro. of Brooklyn. For repairs to heating and ventilating apparatus of Public Schools Nos. 5, 10, 30, 39, 57, 89, 103, 109, 119, 121, 151, 159, 169, 170, 171, 184, 186, and Wadleigh High School, Boro. of Manhattan; for sanitary repairs, etc., in Public Schools Nos. 9, 107 and 122, Boro. of Manhattan; for alterations, repairs, etc., for Public School No. 54, on Amsterdam Ave. and 104th St., Boro. of Manhattan; for alterations, repairs, etc., for Public School No. 180, No. 30 Vandewater St., Boro. of Manhattan; for installing heating and ventilating apparatus in new Public School No. 16, on east side of Sycamore Ave., between Lake and Park Sts., Corona, Boro. of Queens.

JERSEY CITY, N. J.—Manning, Maxwell & Moore, 85 Liberty St., New York, have prepared plans for the erection of a storage warehouse in Jersey City, N. J., to be two stories in height, and to have ground dimensions of 110 × 260 ft. The building will be located opposite the freight office of the Central Railroad of New Jersey, and will be of brick and steel construction, with concrete floors. Each floor will contain 40,000 sq. ft. of space. The building will be equipped with a 20-ton electric traveling crane and a hydraulic elevator, designed especially for handling heavy machinery and tools.

*WILKES-BARRE, PA.—Bids are asked until 2 p. m., July 15, by James M. Norris, County Controller, for constructing interior work of the Luzerne County court-house, Wilkes-Barre. McCormick & French are Archs.

PHILADELPHIA, PA.—Plans will be prepared by George Lovatt, Arch., 420 Walnut St., for a stone church, parochial school and rectory, at 20th and Locust Sts., for St. Patrick's Roman Catholic congregation. The building will have one, two and three stories, with roofing slate, marble and tile work, electric light fixtures, steam heat, stained glass, etc. Cost, $200,000.

Contracts for construction of two elementary schools were awarded by the Property Committee of the Board of Education on June 10 to the CHARLES McCAUL CO., Lancaster and Media Sts. The company offered to build the 21-division Hawthorne School, to take the place of the Fagen School, destroyed by fire last December, at Twelfth and Fitzwater Sts., for $198,700. Two weeks ago, when the committee rejected all bids, because the specifications did not call for fireproof construction, the same builders asked $199,933. The McCaul Co. will erect the Frances E. Willard School, at Emerald and Orleans Sts., also a 21-division structure, for $199,800. Two weeks ago their offer for the same contract was $202,953.

*PHILADELPHIA, PA.—Light-house. See under Miscellaneous Contracts.

PITTSBURG, PA.—A permit has been issued at the Bureau of Building Inspection to A. & S. Wilson, 541 Third Ave., to erect a 9-story brick office building on Ross St., near Fourth Ave., Second Ward, costing $120,000. The office building is to be erected for Albert Curry, of the Union National Bank.

Contract has been awarded to THOMAS REILLY, 6024 Penn Ave., Pittsburg, for erecting the new academy building for the Sisters of Mercy, Pittsburg, Pa. The estimated cost of the building is $475,000. The same builder has also been awarded a contract for St. Kieran's Roman Catholic Church, Pittsburg, Pa., which building will cost $75,000. Edward Stotz, 213 Sixth Ave., is Arch. for both structures.

HOMER CITY, PA.—The Buffalo, Rochester & Pittsburg Ry. Co. has awarded a contract to the HYDE-MURPHY CO., of Ridgeway, Pa., for erection of 60 houses near Homer City, Indiana County, for occupancy of its employees.

*WASHINGTON, D. C.—Bids are asked until 2 p. m., July 2, at the Department of Interior, for installing electric passenger elevator in the Interior Department Building, Washington. James Rudolph Garfield is Secy.

The opening of the bids for constructing the assembly hall at the Government Hospital for the Insane, which was to have taken place at 2 p. m., June 15, at the Interior Department, Washington, has been postponed until June 22 at the same time and place.

BIRMINGHAM, ALA.—The contract for the erection of the new freight depot of the Louisville & Nashville R. R. Co. in this city has been let to the SELDON BRICK CONSTRUCTION CO., Fullerton Bldg., St. Louis, Mo., at $100,000.

ALEXANDRIA, LA.—George R. Mann, of Little Rock, Ark., is preparing plans for the Hotel Bentley, to be built at Alexandria, to cost about $500,000.

NEW ORLEANS, LA.—The New Orleans Terminal Co. has applied to City Engineer for a permit to erect a brick, stone and terra cotta building on neutral ground of Basin, at Canal St., to be used as a passenger station. The building will cost $240,000.

CHATTANOOGA, TENN.—We are officially advised that contract for erection of the railroad depot in this city for the Southern Ry. Co. has been awarded to WELLS BROTHERS CO., 160 Fifth Ave., New York, and Chicago, and work will begin at once. This contract calls for about $400,000 expenditure, to be completed by Feb. 1, 1908. Donn Barber, 24 East 23d St., New York, is Arch.; J. R. Anderson, Chattanooga, is Superv. Bridges and Bldgs.

BRISTOL, TENN.—We are officially advised that the directors of the Interstate Hotel Co. have decided to erect a $100,000 hotel and a $50,000 opera house. T. G. Martin is the Supt., Theodore Swann Secy., and Treas. of the company. Work has begun on putting in the concrete foundation. The company expects to complete the auditorium by Oct. 1, and the hotel by Jan. 1. Barber & Klotty, of Knoxville, Tenn., are Archs.

CLEVELAND, OHIO.—Bids are asked by J. W. Stevens, New York Life Bldg., St. Paul, Minn., until July 10, for the erection of the Hughes High School on Clinton and Gay Sts. It will be 272 × 112 ft., seven stories high, and of reinforced concrete fireproof construction. Cost, $600,000.

CLEVELAND, OHIO.—F. S. Barnum, Arch., Board of Education, has completed plans for a technical high school building. Charles Orr is Dir., Bond and Rockwell Sts. Cost, $250,000.

WILLIAMSPORT, IND.—Bids are asked until July 18 by the Board County Commissioners for repairing and reconstructing the court house. Robert L. Winks is County Auditor. R. W. Alexander is Chn.

ROCKFORD, ILL.—B. H. Jillson, Arch., of Racine, Wis., is preparing plans for Y. M. C. A. building, to be erected at Rockford, to cost about $150,000.

PEORIA, ILL.—WILLIAM M. ALLEN & SONS, 532 Woolner Bldg., have secured the contract for erection of a high school on Lincoln Ave., at about $135,000.

CHICAGO, ILL.—The Steele-Wedeles Co., 179 South Water St., will erect a building at Dearborn Ave. and the Chicago River ten stories high, of fireproof construction, with a front of 180 ft. on Dearborn Ave. The cost of the building will be $350,000.

A 7-story building of reinforced concrete is to be built at the corner of Randolph and Jefferson Sts. for John Ruprecht & Co., meat dealers, West Rand St. It will be 100 × 100 ft. and will cost $175,000. Huehl & Schmidt, 163 Rand St., are Archs. The lower part of the structure will be used for a market.

*AURORA, ILL.—Bids are asked until 3 p. m., July 24, by James Knox Taylor, Superv. Arch., Washington, D. C., for constructing extension to U. S. post-office at Aurora.

*CHICAGO, ILL.—Bids are asked until 3 p. m., July 11, by James Knox Taylor, Superv. Arch., Washington, D. C., for installing an electric dumbwaiter in the U. S. post-office, custom-house, etc., at Chicago.

NORTH CHICAGO, ILL.—The Bureau of Navigation, Navy Dept., Washington, D. C., will award contract for the construction of the ten main buildings at the Naval Training Station, Great Lakes, North Chicago, Ill., to the NOEL CONSTRUCTION CO., Baltimore, Md., at $1,500,000. The bids were opened May 1 for 24 buildings, but as the appropriation is insufficient for the whole work, contract will be awarded on the ten largest buildings only. The same company has received the contract for the construction of eight officers' quarters at the same place at $153,000.

DES MOINES, IA.—The Board of Public Works, W. W. Wise, Pres., is considering plans for erection of a city hall, to cost $350,000.

SIOUX FALLS, S. DAK.—The contract for erecting an addition to main building at School of Deaf Mutes, bids opened June 5, has been awarded to GEORGE W. SPURLING, of Sioux Falls. W. E. Tipton is Secy. Bd. State Charities and Correction.

ST. PAUL, MINN.—The School Board, O. E. Holman, Pres., will erect four fireproof high schools here to cost, in all, $800,000, within the next year. Architects have not yet been selected.

ST. JOSEPH, MO.—Bids are asked by James Knox Taylor, Superv. Arch., Washington, D. C., until 3 p. m., July 17, for repairs, etc., to the U. S. post-office at St. Joseph.

KANSAS CITY, MO.—Charles A. Smith, Arch., Dwight Bldg., has prepared plans for a 3-story high school building, at Westport, for the Board of Education, $350,000.

ST. LOUIS, MO.—The lowest bids opened on June 7 by the Committee on School Buildings, of the Board of Education, for the proposed Oak Hill School, are reported to be as follows: Electrical work, Carrao Electric Co.; general work, Gillick Bros., 7925 Minnesota Ave., and for heating and ventilating, the New York Blower Co. Total cost, about $176,786.

Plans have been arranged for a new 7-story building to replace the old structures at the corner of Tenth and Olive. The building will cost about $150,000. It will be of the steel frame, fireproof construction type. Work is not to begin until early next fall. The lot has a frontage of [illegible] on Olive St. and a depth of 100 ft. [illegible] St. The plans for the new building [illegible] prepared by H. F. Roach, Arch., Che[illegible] Bldg. Cass Gilbert, Arch., [illegible] Bldg., St. Paul, Minn., is preparing [illegible] for a public library building to be b[illegible]re. It will have cut stone exterior, m[illegible] tile and mosaic interior finish, and will [illegible] $1,000,000.

HANNIBAL, MO.—It is [illegible] that the Burlington, Wabash & M[illegible] and Kansas & Texas R. R. contemplate [illegible] a union depot at Hannibal to cost [illegible]een $200,000 and $300,000.

FORT SMITH, ARK.—H[illegible] Hewitt, 24 Arcade Bldg., Peoria, Ill., [illegible] been engaged to prepare plans for the fir[illegible] hotel to be erected at Fort Smith, at a cost of about $200,000.

ORANGE, TEX.—The contract for constructing memorial building [illegible] the Presbyterian congregation at O[illegible] has been awarded to JOB HOLLINGE[illegible] 1614 Main St., Kansas City, Mo., for $167,[illegible] James Oliver Hogg is Arch., 945 New York Life Bldg., Kansas City, Mo.

COLORADO SPRINGS, COLO.—GILLIS BROS., of Colorado Springs, have secured the contract for erecting an addition to the Glockner sanitarium, at $110,000.

PORTLAND, ORE.—Work on the new depot of the Portland Railway Light & Power Co., which, with its site, is to cost about $1,000,000, probably will begin late in the summer. Details have not yet been announced. C. N. Huggins, Portland, is Secy. and Pur. Agt.

BERKELEY, CAL.—We are officially advised that contracts have been let by the School Department for constructing Polytechnic High School, consisting of three buildings, in Berkeley. The buildings will be of steel frame and concrete fireproof construction. Contracts are as follows: Concrete, fireproofing and steel, CHILDS, ARLETT CO.; carpentry, STOCKHOLM & ALLYN; heating and ventilating, W. MORGAN & CO. All the contractors are of Oakland. Stone & Smith, 789 Market St., San Francisco, are Archs. Estimated cost, $175,000.

SAN FRANCISCO, CAL.—The Board of Public Works will ask the Supervisors for authority to proceed with erection of Polytechnic High, Sunnyside and Oceanside schools at a cost of $375,000, $45,000 and $39,000, respectively.

The Studebaker Bros. Co., of California, will construct a building at Mission and Fremont Sts. The building will contain 120,000 ft. of floor space, with a frontage of 137½ ft. in Mission St. and 137½ ft. in Fremont St. The exterior will be of Colusa sand stone and all floors and roofs will be of cement. There are to be five stories and a basement. The first, second and extra mezzanine floors will be fitted up for store rooms. The construction will be class A throughout and the building will have an automatic sprinkling device as an added protection against fire.

SAN FRANCISCO, CAL.—Plans have been completed for restoration of the Mills Building. They provide for an extension on Bush St. that will add to the former capacity 200 extra offices and make the ground dimensions of the structure 212.6 ft. on Bush St. by 150 ft. on Montgomery St. J. M. Robinson is Supt.

WALLACE, IDAHO.—H. F. Samuels will erect a 5-story brick and concrete hotel building, to cost $150,000.

MONTREAL, QUE.—We are officially advised that several firms of architects are preparing competitive plans for the proposed Medical Building for McGill University to replace the one recently destroyed by fire. The building will be of stone, brick and steel concrete fireproof construction, and will cost between $300,000 and $400,000. W. Vaughan is Secy.

CALGARY, ALTA.—George McNeil has completed arrangements for erection of a 7-story brick and stone apartment block. Estimated cost, $150,000. Work will be started as soon as contracts have been let.

VICTORIA, B. C.—Hooper & Watkins, Archs., have awarded the contract for the erection of the addition to St. Joseph's Hospital here to GRIBBLE & SKENE, at $120,000.

WATER SUPPLY—IRRIGATION.

(denotes that this work is advertised in Engineering News.)*

WRENTHAM, MASS.—The citizens voted June 6 to construct municipal electric light and water-works plant. Cost of water-works, $50,000.

BEDFORD, MASS.—An appropriation of $50,000 has been voted for constructing water-works system.

SIDNEY, N. Y.—Estimates for constructing water-works are being prepared by F. K. Baxter, of Utica, N. Y.

WEST POINT, N. Y.—The following bids were received June 10 by the Quartermaster, U. S. Military Academy, for constructing two covered slow sand filters, each about one-eighth acre in extent: Boston & New York Contracting Co., 220 Devonshire St., Boston, Mass., $47,129; E. A. Matthews, 13 Park Row, New York, $50,981; Russell Contracting Co., 156 Fifth Ave., New York, $66,079; Ley Construction Co., Springfield, Mass., $62,386, and McHarg-Bartan Co., 299 Broadway, New York, $51,485. Itemized bids will be given next week under Contract Prices.

NEW YORK, N. Y.—Bids are asked by the Department of Water Supply, Gas and Electricity, John H. O'Brien, Comr., until 2 p. m., July 3, for furnishing and delivering c.-i. pipe, special castings and double-nozzle hydrants.

HOBOKEN, N. J.—Bids are asked by the Board of Water Commissioners, Henry L. Schmidt, Pres., until 3 p. m., June 26, for laying water mains in various streets. J. H. Londrigan is City Clk.

WAUCHULA, FLA.—The City Council has granted franchise to H. E. Whitehead, of Tampa, Fla., for water-works system. The system will consist of 30,000-gallon tank, 2,000 ft. 6-in. mains, etc.

BATON ROUGE, LA.—Bids are asked by the City until noon, July 2, for furnishing and installing pump at the pumping station, capable of discharging 1,000,000 gallons in 24 hours. L. J. Granary is Secy.

BRISTOL, TENN.—The AMERICAN PIPE CO., of Birmingham, has secured contract for supplying water mains, at $31.90 per ton.

FAYETTEVILLE, TENN.—Estimates are being prepared by G. W. Kirkpatrick, C. E., for constructing 1,000,000-gallon reservoir. A sewerage system may also be constructed.

LOUISVILLE, KY.—Bids are asked by Board of Public Works until June 24 for furnishing and erecting 39 6-in. fire hydrants in various parts of the city. Joseph P. Cleybrook is City Engr.

*COLUMBUS, OHIO.—Bids are asked by the Board of Public Service, E. F. McGuire, Secy., until noon, July 10, for laying c.-i. force mains. The principal quantities of work are as follows: 18,100 cu. yds. excavation; 12,200 cu. yds. embankment; 2,200 cu. yds. macadam; 495 cu. yds. brick and concrete masonry; 2,554 tons c.-i. pipe and special castings, 26 3 to 36-in. gate valves and 21,000 lbs. miscellaneous iron and steel. Henry Maetzel is Ch. Engr.

MEDINA, OHIO.—Bids are asked by the Board of Trustees of Public Affairs, H. S. Ross, Secy., until noon, June 21, for furnishing and laying cast-iron water pipe, as follows: 13,338 ft. of 8-in., 1,566 ft. of 6-in., 9,528 ft. of 4-in., and 50 ft. of 12-in. The contract will include furnishing and laying 1,360 ft. of vitrified collecting pipe, concrete pump well, and concrete dam. E. G. Bradbury, 85 North High St., Columbus, Ohio, is Engr.

INDIANAPOLIS, IND.—William Curtis Mabee, Ch. Engr. of the Indianapolis Water-Works Co., has completed plans for constructing 6,000,000-gallon reservoir of concrete with reinforcement of cold twisted steel bars. Estimated cost, $60,000.

GREENFIELD, IND.—Bids are being received by the City Council for constructing the Alexander-Deery drain. All previous bids have been rejected.

BELLEVILLE, ILL.—The Belleville Deep Well Water Co., of Belleville, will establish a new source of water supply from wells in the American Bottoms by building pumping station and connect same with distributing system in Belleville by laying about seven miles of 12-in. pipe line and make other improvements. Estimated cost, $206,000. Chas. H. Tucker is Secy. and Treas. Owen Ford, St. Louis, Mo., is Consult. and Superv. Engr.

MONTICELLO, ILL.—Bids are asked by the Drainage Commissioners of the Lake Fork Special Drainage District in the counties of Piatt, Champaign and Douglas, until 10 a. m., July 6, for cleaning and repairing open ditch of Sub-district No. 10. Harvey Fay, at Monticello, is County Clk.

COUNCIL BLUFFS, IOWA.—The contract for constructing tile drain has been let to WICKHAM BROS., at $30,000.

POLLARD & GOFF, Council Bluffs, have been awarded contract for constructing county tile drainage ditch, for $140,000.

POCAHONTAS, IOWA.—The contract for constructing 3,700 ft. of tile ditch in Sec. 2, Dis. 16, has been let to HENRY SHIPLEY, of Rolfe, Iowa.

COMFREY, MINN.—A water-works system will be installed. Estimated cost, $4,000.

AURORA, MINN.—The Council has let contract to PASTORET & LUNZ for laying water mains at 55 cts. per lin. ft.

ALMENA, KAN.—A water-works system will be constructed. Estimated cost, $15,000.

GRAND ISLAND, NEB.—Bids are asked by the City Council until 5 p. m., July 7, for constructing seven blocks of 6-in. c-i. pipe water mains on West Fifth St., including hydrants, gate valves, etc. H. E. Clifford is City Clk.

JACKSON, MO.—Bids are asked by William Paar, City Clk., until 7.30 p. m., July 9, for furnishing materials and installing complete water and light plant. Hiram Phillips, 615 Frisco Bldg., St. Louis, Mo., is Consult. Engr.

PINE BLUFF, ARK.—Bids are asked until July 2 by A. M. Barrow, Chn. Bd. Dirs., Consot Drainage Dist., for constructing about 16 miles of drainage canals. Willis E. Ayres, Randolph Bldg., Memphis, Tenn., is Engr.

DENISON, TEX.—A water-works system will be installed.

PAWHUSKA, OKLA.—Bids are asked until 8 p. m., July 8, for engineering work in designing and constructing municipal water-works and sewer systems. C. T. Bennett is City Clk.

MILTON, WASH.—A water-works system will probably be constructed.

FRANCIS, SASK.—A water-works system will be installed. Estimated cost, $25,000.

SEWERAGE.

(denotes that this work is advertised in Engineering News.)*

TAUNTON, MASS.—Bids are asked until June 21 by Wm. Granfield, Chn. Sewer Comrs., for constructing 2,700 ft. of double-ring circular brick sewer in West Water St.

NORWALK, CONN.—Bids are asked by Clarence Buttery, Chn. Sewer Com., 6 Water St., Norwalk, until July 1, for constructing stoneware pipe sewers with manholes, catch-basins, etc. C. N. Wood is City Engr.

ANSONIA, CONN.—The contracts for construction of storm water sewers on Grove, Vine, Fourth and Jackson Sts. and Myrtle Ave. have been awarded by the Board of Public Works to EDWARD TRACY, of Derby, Conn.

NEW YORK, N. Y.—Bids are asked by the Department of Health, Thomas Darlington, M. D., Pres., until 9.45 a. m., June 26, for furnishing and delivering vitrified sewer pipe, cast-iron manhole covers and Portland cement to the Tuberculosis Sanatorium at Otisville, Orange County, N. Y.

NEW YORK, N. Y.—Bids are asked by Joseph Bermel, Pres. Boro. of Queens, until 11 a. m., July 1, for constructing temporary sewers in portions of various streets, Boro. of Queens.

BADEN, PA.—Plans are being prepared for constructing sewerage system. Cost, $20,000. J. P. Leaf is City Engr.

LAUREL, MD.—W. D. Howells, of Washington, D. C., has completed plans for constructing sewer system.

WASHINGTON, D. C.—Bids were received as follows June 15 by the District Commissioners for: (a) 10,000 brass stop cocks; (b) 10,000 lead flange couplings; (c) 5,000 meter boxes: Glauber Brass Mfg. Co., Cleveland, Ohio, (a) 70 cts. each; (b) 40 cts. each. Anderson Coupler Co., Portland Conn., (a) 57 cts.; (b) 35 cts. G. & W. Mfg. Co., 26 Cortlandt St., New York, (a) 64 cts.; (b) 46 cts.; (c) $1.30. Jenkins Mfg. Co., 12 Park Row, New York, (b) 39½ cts. Mueller Mfg. Co., 254 Canal St., New York, (a) 70 cts.; (b) 40½ cts. H. W. Clark, Mattoon, Ill. (c) $1.98. Lynchburg Foundry Co., Lynchburg, Va., (c) $1.14. Richmond Iron Works, Richmond, Va., (c) $1.20.

Bids were received as follows June 17 by the District Commissioners for construction of two sewers from (a) R. J. Beall Construction Co., 1217 F St., N. W., Washington, (b) Warren F. Brenizer Co., Second and O Sts., S. E., Washington: Tenth St. Sewer: ordinary excavation, (a) $2.75; (b) $2.50; red brick masonry, (a) $17.50; (b) $17; vitrified brick masonry, (a) $26.50; (b) $26; concrete masonry "B," (a) $11.50; (b) $10.90; concrete masonry "C," (a) $10.80; (b) $10. 17th St. Sewer: excavation (a) $2.90; (b) $2.75; red brick masonry, $17.50; (b) $17; vitrified brick masonry, (a) $26.50; (b) $26; concrete masonry "B," (a) $12.60; (b) $11; concrete masonry "C," (a) $11.50; (b) $12. For both sewers, six-inch pipe for drain, (a) 30 cts.; (b) 30 cts.

WASHINGTON, D. C.—Bids were received as follows June 18 by the District Commissioners for construction of sewer: Cranford Paving Co., 26th and E Sts., N. W., Washington, Section A, tunnel excavation, $6.40 per cu. yd.; sewer brick masonry, $19.50; vitrified brick masonry, $24; concrete masonry "B," $9.50; concrete masonry "D," $9. Section B, ordinary excavation, 95 cts.; sewer brick masonry, $16.50; vitrified brick masonry, $21; concrete masonry, "B," $8.20; rock excavation, $1.90; embankment, 30 cts.

PARKERSBURG, W. VA.—The Board of Affairs has awarded the BRADY CONSTRUCTION CO. contract for extension of storm sewer in Fifth, Sixth, Seventh and Eighth Wards, at $8,890. J. V. Dunbar is City Engr.

FITZGERALD, GA.—Plans for constructing sewerage system are being prepared, which will probably be presented to City Council by August 1. C. M. Wise is City Clk.

NASHVILLE, TENN.—The Board of Public Works has let to J. P. LEWIS contract for building 33-in. radiated brick sewer in Sixth Ave. North, between Broadway and Cumberland Alley. W. W. Southgate is City Engr.

CHATTANOOGA, TENN.—The Board of Public Works June 4 received the following bids for constructing sewers: Districts Nos. 7 and 9: WEST CONSTRUCTION CO., $88,202 (awarded contract); Guild & Co., $89,489; Nolf Construction Co., $101,939; Sullivan & Long, Bessemer, Ala., $103,169; E. T. Lewis & Co., Nashville, Tenn., $105,137; Bosler & Flynn, $105,972. Districts Nos. 1, 2, 3, 5 and 6 and main sewer No. 4 and extension of main sewer No. 2: NOLL CONSTRUCTION CO., $136,986 (awarded contract); West Construction Co., $151,513; Bosler & Flynn, $170,405; Guild & Co., $174,322; Sullivan & Long, $179,711; E. T. Lewis Co., $184,266. Robert Hook is City Engr.

*COLUMBUS, OHIO.—Bids are asked by the Board of Public Service, E. F. McGuire, Secy., until noon, July 10, for pumping machinery for East Side Sewage Pumping Station. The work includes furnishing and erecting two units for pumping sewage, each unit consisting of a horizontal centrifugal pump chain-driven by horizontal gas engine and having maximum capacity of 2,900,000 gallons per 24 hours against a head of 63 ft., together with all piping and appurtenances, including 20-in. Venturi meter. Henry Maetzel is Ch. Engr.

NAPOLEON, OHIO.—Bids are asked until July 8 for construction of storm water sewer in Mary Dodd's Second Addition.

CANTON, OHIO.—Bids are asked by the Board of Public Service, B. F. Faust, Clk., until noon, July 1, for constructing sewer in portion of Dueber Ave. W. E. Sarver is City Engr.

*LEBANON, OHIO.—Bids are asked by the Village Council, M. E. Gustin, Clk., until noon, July 1, for constructing two sanitary sewers, one about 3,400 ft. long, average depth, about 10.9 ft., and one about 6,400 ft. long, average depth, about 10.3 ft.

SYLVANIA, OHIO.—Plans have been prepared by L. T. Owens, of the Toledo Ry. & Light Co., Toledo, Ohio, for constructing sewerage system for the north side. Cost, $17,000.

CANTON, OHIO.—Bids are asked until June 24 for furnishing materials for improving West South St. from alley west of Dueber Ave. to Dartmouth Ave. with sanitary sewer. B. F. Faust is Clk. Bd. Pub. Service.

CLEVELAND, OHIO.—Bids are asked by the Board of Public Service, A. R. Callow, Secy., until noon, June 27, for constructing sewers in portions of various streets.

CLEVELAND, OHIO.—Bids are asked by the Board of Public Service, A. R. Callow, Secy., until noon, June 25, for constructing sewers in various streets. W. J. Carter is City Engr.

YOUNGSTOWN, OHIO.—Bids are asked by the Board of Public Service, W. H. McMillin, Clk., until noon, June 21, for constructing sewer on portions of Pearl St. F. M. Lillie is City Engr.

CINCINNATI, OHIO.—The following bids were received June 3 by the Board of Public Service for constructing Symmes St. sewer: THOS. P. STRACK, 518 Walnut St., $11,965 (awarded contract); McCarthy Bros., $12,405; and W. J. Hollaender, $15,624. Charles N. Danenhower is Ch. Engr. Bd. Pub. Service.

SPRINGFIELD, OHIO.—The Board of Public Service June 7 let contract to DOYLE & CAFFERY, at $22,769 for constructing outfall sewer. W. H. Sleverling is City Engr.

RICHMOND, IND.—Bids are asked until June 28 for constructing sewerage system and disposal plant. Estimated cost, $50,000. Frederic R. Charles is City Engr.

TERRE HAUTE, IND.—The contract for constructing extension of North Main St. sewer has been awarded to RALPH BAUM, for $4,000. Edgar Schmidt is City Engr.

DOWAGIAC, MICH.—The contract for constructing sewers has been let to JAMES MANN & SON, of Dowagiac, at the following bid: Reinforced concrete pipe 2,645 lin. ft. 48-in., $4.77; 4,441 ft. 42-in., $4.95, and 2,250 ft. 30-in., $4.25; vitrified pipe, 1,680 ft. 24-in., $3.16, and 273 ft. 15-in., $2.29; manholes, each $28.75; house connections, 25 cts., and retaining walls, $116.25. J. S. Haines is City Engr.

HOUGHTON, MICH.—The contract for constructing sewers in West Houghton has been awarded to JAS. J. BEYERS & CO., of Houghton, for $19,751. C. Brand is City Clk.

QUINCY, ILL.—PETER SIMONS has been awarded contract for constructing brick storm water sewer in Ninth and Vine Sts., at $4,239. F. L. Hancock is City Engr.

PEKIN, ILL.—Bids are asked until July 1 for constructing brick and pipe sewers. Cost, $115,000. John R. Siebert is City Engr.

DIXON, ILL.—PAUL G. BAXTER, Rochelle, Ill., has been awarded contract for constructing sewer in Highland Ave., at $3,040.

BELLEVILLE, ILL.—Contracts will probably be let in July for constructing about ten miles of 12 to 36-in. pipe sewers. Fred. Deutschmann, Jr., is City Engr.

STERLING, ILL.—Bids are asked by the City Council, J. L. Harrison, Secy., until 2 p. m., June 24, for constructing East End sewer system.

DES MOINES, IOWA.—The following bids were received June 6 by the Board of Public Works for constructing west end extension of Ingersoll Run sewers, to consist of 26,723 lin. ft. 12 to 30-in. pipe sewer, and 3,571 ft. reinforced concrete sewer, 3½ × 2 ft. to 4½ × 3½ ft., (a) price per lin ft., (b) totals: Geo. M. King, (a) $2.57, (b) $77,855; P. J. Griffin, (a) $2.71, (b) $82,097; Turner Improvement Co., (a) $2.447, (b) $74,129; O. P. Herrick (a) $2.98, (b) $90,076; Likes Construction Co., (a) $2.49, (b) $75,432. The bidders are all of Des Moines. George D. Dobson is City Engr.

DENISON, IOWA.—A. J. GARY has secured contract for laying sewers in Washington Ave., at 85 cts. per ft. and in Anthony St., at 55 cts.

MANKATO, MINN.—The Board of Public Works has let contract for extending sewer on Spring St. to O. M. MASTERS.

ELBOW LAKE, MINN.—Bids are asked until July 8 by Thos. Casey, Village Recorder, for constructing sewers and septic tank. Loweth & Wolff, First Natl. Bank Bldg., St. Paul, are Engrs.

CANEY, KAN.—The following bids were received June 3 for construction of sewerage system: Tibey Bros., Dubuque, Iowa, $48,570; Jas. Stanton, $45,270; A. O. Land, $45,995; Matt & Davis, $44,635; Chas. Derr, $41,767; W. W. COOK & SON, Junction City, $38,020 (awarded contract). M. A. Earl & Co., of Muskogee, Ind. T., and Chicago, Ill., are Engrs.

HORTON, KAN.—Bids are asked until 8 p. m., July 1, for constructing seven lateral sewers. B. B. Norris is City Clk. W. B. Hazen, Commercial Bldg., St. Joseph, Mo., is Engr.

SEWARD, NEB.—The City Council has let contract to JACOB GEIZ, of York, for constructing 6,678 ft. of sewer, at $3,865.

ST. LOUIS, MO.—The Board of Public Improvements June 7 awarded contract for constructing Harlem Creek sewer, a continuation of the present sewer from Broadway to Florissant on Bircher St., about 1,900 ft., to the PENDERGAST CONSTRUCTION CO., 308 North Sixth St., for $165,930. Charles M. Talbert is C. E., Bd. Pub. Impvts.

PAWHUSKA, OKLA.—See under Water Supply—Irrigation.

OAKLAND, CAL.—The BLAKE & BILGER CO. has been awarded contracts for macadamizing with broken stone macadam at 7 cts. per sq. foot, 38th St., from Silver St. to Broadway, and the contract for laying 8-in. sewers, at 90 cts. per lin. ft., in 38th St., from Opal to point 130 ft. east from east line Diamond St., and the contract for 10-in. conduit of standard sewer pipe, at $1.00 per lin. ft., in 38th St., from Diamond St. to west bank of western branch of Cemetery Creek. Frank R. Thompson is City Clk. C. W. Cross is City Engr.

CARTIERVILLE, QUE.—The SARAGUAY ELECTRIC LIGHT & POWER CO., Montreal, has secured the contract for construction of sewer works.

GARBAGE DISPOSAL.

(denotes that this work is advertised in Engineering News.)*

NEW YORK, N. Y.—Bids are asked by Joseph Bermel, Pres. Boro. of Queens, until 11 a. m., June 26, for final disposition of garbage in Fifth Ward, Boro. of Queens, for period of three years, during the months of June, July, August and September, beginning June 1, 1907, and furnishing and operating necessary dump, scows, tugs, etc.

*SCHNECTADY, N. Y.—Bids are asked by the Board of Contract and Supply, Frank L. Fonda, Clk., until 2.30 p. m., June 26, for collection and sanitary disposal of ashes, rubbish, garbage and dead animals for a period of five years, beginning October 1, 1907.

WHITE PLAINS, N. Y.—A garbage incinerating plant will be constructed.

MILWAUKEE, WIS.—The Council has passed a resolution employing Rudolph Hering, of New York, to prepare plans for constructing garbage disposal plant.

STREETS AND ROADS.

(denotes that this work is advertised in Engineering News.)*

NEWPORT, R. I.—Bids are asked by the Paymaster General of the Navy until June 25, for constructing 2,454 sq. ft. walks at the Naval Station, Newport.

ALBANY, N. Y.—The Board of Contract and Supply, Isidore Wachsman, Clk., has rejected all bids received June 3 for improving and paving Morris St. as being too high. Walter Melius is City Engr.

NEW YORK, N. Y.—The following bids were received June 13 by James W. Stevenson, Comr. of Bridges, for relaying pavement on southerly approach to Willis Ave. bridge over Harlem River: Snare & Triest Co., 143 Liberty St., New York, $18,890; Cooper & Evans Co., 220 Broadway, New York, $7,665, and Charles Meade & Co., 299 Broadway, New York, $13,420.

Bids as follows were received June 13 by James W. Stevenson, Comr. of Bridges, for widening roadways on Manhattan approach of Brooklyn Bridge: J. H. Gray & Co., 949 Broadway, $190,000; Charles Meade & Co., 299 Broadway, $151,100; Williams Engineering & Contracting Co., 13-21 Park Row, $149,843; Cooper & Evans, 220 Broadway, $111,235, and Snare & Triest, 143 Liberty St., $141,400. All bidders are of New York.

NEW YORK, N. Y.—Bids are asked by Joseph Bermel, Pres. Boro. of Queens, until 11 a. m., June 26, for regulating and grading the Boulevard, from Webster Ave. to Broadway, First Ward.

Bids are asked by Bird S. Coler, Pres. Boro. of Brooklyn, until 11 a. m., June 28, for regulating and paving portions of various streets, Boro. of Brooklyn.

NEW YORK, N. Y.—Bids are asked by Joseph Bermel, Pres. Boro. of Queens, until 11 a. m., July 1, for regulating, grading, etc., portion of various streets, Boro. of Queens.

NEW YORK, N. Y.—Bids are asked by the Department of Health, Thomas Darlington, M. D., Pres., until 9.45 a. m., July 2, for furnishing material and regulating, grading, setting curbstones, placing catch-basin, laying drain pipe and paving with vitrified brick and wood block pavements the walks and driveways in and throughout grounds of the Willard Parker Hospital, foot of East 16th St., Borough of Manhattan.

Bids are asked by the Department of Parks, Moses Herrman, Pres., until 3 p. m., July 3, for furnishing and delivering (A) Hudson River road gravel on Ocean Parkway; (B) Hudson River road gravel in parks and on parkways, Boro. of Brooklyn; (C) crushed trap rock and trap rock screenings on parkways, Boro. of Brooklyn, and (D) limestone and limestone screenings in parks in the Boros. of Brooklyn and Queens.

ILION, N. Y.—Bids are asked by James McGowan, Highway Comr., until 2 p. m., July 1, for constructing about one mile of highway. J. D. Ringwood is County Engr.

*BOGOTA, N. J.—Bids are asked by the Borough Council until 8 p. m., July 2, for macadamizing, laying curb, gutter and flag walks on various streets. The approximate quantities of work are as follows: 10,500 lin. ft. flag walks; 10,500 lin. ft. curb; 1,950 sq. yds. gutters and 9,200 sq. yds. macadam. Peter F. Hopper is Chn. Street Com.

*OCEAN CITY, N. J.—Bids are asked by the County Board of Chosen Freeholders, Anthony B. Smith, Dir., until noon, July 8, for constructing a state and county road from western terminus of Ocean City turnpike at Marmora, to bridge over Cedar Swamp Creek, a distance of 3.455 miles. R. Fendall Smith, at Ocean City, is Engr.

BOYERTOWN, PA.—The Borough Council has let contract for paving Philadelphia and Reading Aves. to FEHR & O'ROURKE, of Reading, Pa., at $1.47 per sq. yd.

*WASHINGTON, D. C.—Bids are asked by the District Commissioners until noon, June 29, for grading and regulating suburban streets and avenues.

Bids also are asked at the same time for grading various streets and avenues, aggregating about 58,000 cu. yds. of grading.

DECATUR, ALA.—The contract for 57,000 lin. ft. of paving has been let to the SOUTHERN BITULITHIC CO., of Birmingham, Ala. Bitulithic pavement will be used.

LOUISVILLE, KY.—FISHER & CO. have been awarded contract for constructing turnpike roads in Sterling Township, at $19,187.

The Board of Public Works has let contracts for paving portions of Midland and Clark Aves. with vitrified brick to L. R. FIGG, for $4,786 and $5,063, respectively. The BARBER ASPHALT PAVING CO. se-

cured the contract for paving portion of Bellewood Ave. with asphalt, at $3,285. Joseph P. Claybrook is City Engr.

YOUNGSTOWN, OHIO.—Bids are asked by the Board of Public Service, W. H. McMillan, Clk., until noon, June 21, for furnishing materials and paving Willis Ave., from Market St. to Hillman St. Bids are also asked for paving and sewering of Walnut St., from Wood St. to East Rayen Ave.

WAPAKONETA, OHIO.—Bids are asked by the County Commissioners until 9 a. m., July 6, for constructing Maier's Pike and Miller Joint Pike. W. H. Meyer is County Auditor.

CLEVELAND HEIGHTS (Cleveland postoffice), OHIO.—Bids are asked by William G. Phare, Village Clk., until noon, July 16, for improving portions of Mayfield Road. The work includes grading, draining, paving, etc.

PORTSMOUTH, OHIO.—The Board of Public Service June 12 received the following bids for paving with Portsmouth block, on concrete foundation of Portland cement, tar filler and cement curb and gutter, portions of (A), Eighth St. and (B), Young St.: M. A. Mulligan, of Ironton (A), $41,108; Kaps Bros., Portsmouth (A), $37,506; Monroe & Son, Portsmouth (A), $37,037 (B), $5,339 and KELLY BROS., Portsmouth (A), $36,854 and (B), $5,210 (awarded both contracts). R. A. Bryan is City Engr.

CINCINNATI, OHIO.—All bids received May 28 by the Board of Public Service, M. J. Keefe, Clk., for grading, setting limestone curb, constructing necessary drains, and paving portion of Columbia Ave. were rejected as being too high. New bids are asked until noon, July 10. Estimated cost, $86,967. C. N. Dannenbower is City Engr.

COLUMBUS, OHIO.—The Council has authorized the Board of Public Service to construct an asphalt street repair plant. Estimated cost, $15,000. Henry C. Maetzel is City Engr.

STEUBENVILLE, OHIO.—Bids are asked by Sam Huston, State Highway Comr., until July 9 for constructing highway.

Bids are asked by the County Commisioners until July 9 for constructing macadam road.

CUYAHOGA FALLS, OHIO.—The Village Council has let contract for paving North Front St. with Bessemer brick to JOHN J. O'NEIL, of Akron, Ohio, for $16,102. All bids received for paving South Front St. were rejected.

ASHLAND, OHIO.—Sam Huston, State Highway Comr., has awarded contract for constructing rural road in Ashland County, 8,188 ft. long, to McARTHUR & CO., of Kenton, for $10,705.

BOONVILLE, IND.—Bids are asked by the County Commissioners until 10.30 a. m., July 1, for construction of four gravel roads in Campbell Township. Estimated cost, $24,255.

COLUMBUS, IND.—Bids are asked by the City Council until 8 p. m., July 1, for paving Washington St. with asphalt.

Bids are asked by the County Commisioners until 8 p. m., July 1, for construction of four miles of gravel roads. William H. Rights is City Engr. and County Surv.

DANVILLE, IND.—Bids are asked by the County Commissioners until 10 a. m., June 24, for construction of gravel road, 5,343 ft. in length. Bids are also asked at the same time for improving 12,700 ft. of highway in Franklin Township. David D. Mills is County Audr.

GREENSBURG, IND.—Bids are asked by the County Commissioners until July 1 for construction of macadamized road in Sandcreek Township, 900 ft. in length. Frank E. Ryan is County Audr.

PETERSBURG, IND.—Bids are asked by the County Commissioners until July 12 for construction of 7,558 ft. of gravel road in Washington Township. F. R. Bilderblack is County Audr.

PERU, IND.—Bids will soon be asked by the County Commissioners for constructing 36 miles of gravel roads in Richland Township.

BLUFFTON, IND.—Bids are asked by the Common Council until 7.30 p. m., June 28, for constructing 4-ft. cement sidewalks along portion of Eaton Ave. Frank S. Smith is City Clk.

HAMMOND, IND.—Bids are asked by the Department of Public Works until 10 a. m., June 24, for constructing 5-ft. concrete cement sidewalk along portion of Cedar St. W. F. Bridge is City Engr.

TERRE HAUTE, IND.—The Board of Public Works June 11 let contract for paving portion of Eagle St. to ROBERTS & CO., for $14,948. The MEREDITH CONSTRUCTION CO. secured contract for paving portion of Mulberry St., at $14,258. Edgar Schmidt is City Engr.

VALPARAISO, IND.—Bids are asked by the County Commissioners until noon, July 1, for constructing 2,300 ft. of stone road in Center and Liberty Townships. Stephen P. Corboy is County Audr.

CAIRO, ILL.—The City Council has passed an ordinance ordering Washington Ave. paved with brick. Estimated cost, $129,624. Wilbur B. Thistlewood is City Engr.

EDWARDSVILLE, ILL.—Contract for constructing 12,000 ft. of granitoid walks has been let to ROBT. HYTEN, Edwardsville, at 11 cts. per ft.

CHICAGO, ILL.—Bids are asked by the Board of Local Improvements, John A. May, Secy., until 10.15 a. m., June 21, for the work under 33 contracts for constructing cement sidewalks.

MILWAUKEE, WIS.—Bids are asked by Board of Public Works until 10.30 a. m., June 25, for the following work: Grading and paving with stone various alleys, curbing sidewalks with stone on portions of six streets, curbing sidewalks with stone and constructing cement walk on east side of Teutonic Ave. Charles J. Poetsch is City Engr.

DES MOINES, IOWA.—Bids are asked by the Board of Public Works until 11 a. m., July 3, for constructing combined curb and gutter of Portland cement on portion of Bowman St. George D. Dobson is City Engr.

PINE BLUFF, ARK.—Bids are asked until 2 p. m., July 6, for paving and curbing Second Ave., from State to Nebraska St. The work includes 17,000 sq. yds. brick pavement and 8,000 ft. combined curb and gutter. Wm. J. Parkes is City Engr.

MUSKOGEE, IND. T.—Contract for about 75 blocks of paving has been let to the W. A. STUCKEY CONSTRUCTION CO., of Coffeyville, Kan.

MOOSEJAW, SASK.—The PARSONS CONSTRUCTION CO. has received contract for laying 104,406 ft of granolithic sidewalks, 11,020 ft. of crossings and 14,420 ft. of gutters, for $25,786. Mann & Creighton bid $26,778.

MANUFACTURING PLANTS.

(denotes that this work is advertised in Engineering News.)*

SPRINGVALE, ME.—The Springvale Spinning Co. has been organized at Springvale to spin worsted yarns. Six frames will be started in a few weeks.

NEW BRITAIN, CONN.—The Union Manufacturing Co., makers of lathe chucks, pumps and planes, is having plans drawn for an additional factory building. It will be a six-story brick structure, 60 × 120 ft.

ALBANY, N. Y.—The Federal Railway Signal Co., of Green Island, N. Y., is about to begin construction of factory building on upper Broadway, Albany. The new building is to be 350 ft. long and 100 ft. wide, two stories in height, and of fireproof steel construction. Estimated cost, $80,000. Work will be begun in about a month.

PHELPS, N. Y.—Dillinan Brothers, of Geneva, it is reported, have decided to locate here and will erect a kraut factory with capacity of 5,000 tons of cabbage. To this will be added a canning plant and later they will erect a cold storage plant.

BUFFALO, N. Y.—The Nickel Plate Elevator Co. recently organized at Buffalo to take over the elevator transfer business of the Husted Milling and Elevator Co., has contracted with the MACDONALD ENGINEERING CO., of Chicago, to erect a concrete grain elevator of 300,000 bushels capacity at Elk St. and the Nickel Plate R. R. tracks in this city.

NEW YORK, N. Y.—Bids are asked by the Board of Health until 9.45 a. m., July 9, to furnish and install two tubular boilers, laundry machinery and equipment, together with all necessary steamfitting and other work incidental thereto, in the laundry building on the grounds of the tuberculosis sanatorium, at Otisville, Orange County, New York. Dr. Thomas Darlington is Pres.

PHILADELPHIA, PA.—The United Lead Co. is reported to be considering construction of factory on Fifth and Locust Sts. of reinforced concrete construction, 73 × 130 ft. Estimated cost, $35,000.

LANCASTER, PA.—The Armstrong Cork Co., 23d St., Pittsburg, Pa., has had plans prepared for constructing a linoleum plant at Lancaster.

UNION CITY, PA.—The Union City Chair Co. will have plans prepared at once, it is reported, for a plant to replace buildings that were burned recently. Cost, $50,000.

ZELIENPOLE, PA. — Victor Buetner, Westinghouse Bldg., Pittsburg, Pa., is preparing plans for a 1-story foundry to be built here for the Iron City Sanitary Mfg. Co., 18 Wood St., Pittsburg.

NEW CASTLE, DEL.—The Board of Trade is reported to have secured the erection of steel plant by the Tropenas Steel Co. Estimated cost, $3,000,000. A specialty will be steel wheels.

ELKINS, W. VA.—The Western Maryland R. R. Co. will probably enlarge its shops to double their present capacity.

NEW MARTINSVILLE, W. VA.—The New Martinsville Glass Mfg. Co. has decided to erect factory, 120 × 280 ft., to replace the structure destroyed by fire. Estimated cost, with equipment, $50,000.

CHARLESTON, W. VA.—The buildings and equipment for the factory of the Dunkirk Window Glass Co., which will be erected here, it is reported, will cost $75,000, and will have a roofing space of 1,000 squares. The product of the plant will be 30 carloads of window glass per month. The plans for the buildings have been prepared by Geo. A. Schlosstein, Pres. and Gen. Mgr., at Dunkirk, Ill.

RALEIGH, N. C.—A company will be organized, with capital stock of $30,000, to build knitting mill at Carolina Beach, N. C.

WASHINGTON, N. C.—John H. Small and Hallett S. Ward, of Charlotte, N. C., are interested in establishment of cotton concern at Washington. A company is being organized to erect a mill and $100,000 is expected from local capitalists, and from $50,000 to $100,000 of outside capital is hoped for.

MANCHESTER, N. C.—The McNeill Manufacturing Co., recently incorporated at Fayetteville with a capital stock of $200,000, has been organized, with W. D. McNeill Pres. A 10,000-spindle mill is to be erected at Manchester for the manufacture of print cloths. The power will be transmitted from dam already constructed.

CHARLOTTE, N. C.—The Stony Point Manufacturing Co. has been organized, with M. K. Steele, Pres., A. L. Watts, Vice-Pres., and N. F. Steele, Supt. The erection of a mill plant will be begun at once, and it is intended to install from 2,500 to 3,000 spindles for manufacture of single and ply cotton yarns, Nos. 14 to 24. The capital stock is $125,000.

LINCOLNTON, N. C.—The Eureka Manufacturing Co., of Lincolnton, which has been reported as beginning construction of mill, has chosen J. L. Lineburger, Pres., and L. J. Dellinger, Sec. and Treas. The capital stock is $40,000, not $400,000, as has been reported. The mill being erected will have equipment of 5,000 mule spindles for manufacturing yarns Nos. 4 to 10.

HENDERSON, N. C.—Another plant is to be erected for the Harriett Cotton Mills of Henderson, and the capital stock has been increased $200,000 for this purpose. The present plant operates 21,400 spindles, manufacturing yarns.

UNION, S. C.—About $100,000 will be expended for additions and improvements to the Union Buffalo Mills at Union. New operatives' cottages are to be erected, old buildings will be improved and warp-tying machines installed. The plant is equipped with 159,000 spindles and 4,400 looms, and the capital stock is $7,000,000.

EASLEY, S. C.—The Easley Cotton Mills have decided to build an addition for cotton waste manufacturing.

ROCKHILL, S. C.—Operations will probably begin in about two weeks for constructing the Arragon Cotton Mills of Rockhill. They will have a capacity of 20,000 spindles and 600 looms, but the first instalment will be 10,240 spindles and 300 looms. Fourya rd sheeting will be manufactured and the plant will be run by electricity. Alexander Long is Pres. and Treas. The capital stock is $350,000.

STATESVILLE, S. C.—The Stony Point Manufacturing Co. will build a cotton mill at Stony Point, twelve miles from Statesville, in which M. K. Steele & Sons, cotton mill men of Turnersburg, are interested. It has been chartered with authorized capital of $125,000, with $60,000 subscribed. Messrs. L. C. and N. F. Steele, Mrs. N. D. Tomlin, J. W. Watts, Al. Watts, W. D. McLellan, B. F. Hines and others are among the incorporators.

AUGUSTA, GA.—The plant of the Armor Fertilizer Co. will be doubled in capacity, and construction work will begin in a few weeks. The present plant, which was established last winter, has capacity of 15,000 tons per season, and employs more than 100 hands. The addition will increase the output to 30,000 tons per annum and the working force will be about doubled.

SARGENT, GA.—A modern cotton mill will be erected by the Wahoo Manufacturing Co. to replace its plant recently destroyed by fire. The new building will have an equipment of about 6,200 spindles for manufacturing yarns. Electricity will operate the plant.

ATLANTA, GA.—The Frank E. Block Co., 80 Elliott St., will enlarge its candy factory and install a large amount of new machinery. When completed the plant will have a capacity of one million pounds of chocolates a year.

CHICKAMAUGA, GA.—The establishment of a cotton goods bleachery and cotton bag mill is proposed for Chickamauga, and the enterprise is in the hands of A. S. Bowen, T. G. Montague, John S. Martin, W. F. Hutcheson, L. L. Peak and J. S. Read. A company will probably be organized to build a $100,000 bleachery, and those named, in conjunction with a New Jersey manufacturing company, are planning erection of $400,000 cotton bag mill.

ALEXANDER CITY, ALA.—A. H. Washburn, of Charlotte, N. C., is preparing plans for building cotton yarn mill for the Russell Mfg. Co. No contracts have yet been let for buildings, and company may build with own working forces. The power plant will include a 16 × 36-ft. Corliss engine and 100 H. P. boiler.

ST. STEPHENS, ALA.—The St. Stephens Lands Cement Co., with $50,000 capital, has been organized to develop cement deposits near St. Stephens, where a plant with 2,000 barrels' daily capacity will be established.

SHREVEPORT, LA.—S. W. Lindsay, John Lindsay, Henry Fuller, T. G. McCullum and T. B. James, of Laurel, Miss., contemplate establishing a $100,000 wagon factory here.

MEMPHIS, TENN.—The Merchants' Cotton Press and Storage Co. is reported to have purchased property on Trigg and Livermore Sts., on which it is proposed constructing cotton warehouse and compress plant. Estimated cost, $500,000.

A mill for manufacture of cotton batting is to be established by Devorkin Brothers, the site having been purchased.

LOGAN, OHIO.—The Hocking Valley Ry. Co. has awarded contract to the MT. VERNON BRIDGE WORKS, Mt. Vernon, Ohio, for the structural steel work on five additional shop buildings to be erected at Logan. This will include a power house, 60 × 120 ft.; carpenter shop, 60 × 120 ft.; office and store rooms, 25 × 50 ft.; pipe and tin shops, 30 × 50 ft.; lumber driers, 40 × 50 ft. The buildings will be of structural steel and brick construction and will be equipped with modern car repairing machinery. The contract for the main shop building was also awarded to the MT. VERNON BRIDGE WKS.

AKRON, OHIO.—Alex. Adamson is stated to have secured site in East Akron on which to erect a foundry and machine shop. Cost, $250,000. Plans are being prepared.

COLUMBUS, OHIO.—The Ralston Steel Car Co., in East Columbus, will soon let contracts for large structural steel building, about 200 × 100 ft. The new building will be used in connection with the repair department and the manufacture of the patent steel underframes.

DAYTON, OHIO.—The Dayton Motor Co. will erect a 6-story concrete fireproof factory at Bainbridge and Bacon Sts.

CLEVELAND, OHIO.—The Standard Foundry & Mfg. Co., Cleveland, is having plans prepared for an addition to its plant, to be used as a rivet shop. The building will be about 60 × 60 ft.

EAST COLUMBUS, OHIO.—The Ralston Steel Car Co., New First National Bank Bldg., Columbus, is having plans prepared for a car repairing shop, etc., at East Columbus, which will cost $50,000.

ANDERSON, IND.—Th[illegible] Traction Co. has decided [illegible] tion to the car shops. [illegible] $15,000.

Bids are being received [illegible] Works for erection of [illegible] an addition to their pla[illegible] $100,000.

BEDFORD, IND.—The [illegible] is reported incorporated [illegible] equip handle factory in [illegible] Dodd, J. W. Douthit a[illegible] are directors.

MILWAUKEE, WIS.—[illegible] been finished by H. J. E[illegible] St., for a $65,000 building [illegible] Vogel Leather Co. at its [illegible] south of the Kinnickinnic [illegible] St. The building will be [illegible] 65 × 175 ft., of brick and [illegible] reinforced with concrete. [illegible] pleted by Nov. 1, and will [illegible] eral tanner business.

MILWAUKEE, WIS.—T[illegible] Co.'s foundry, which was [illegible] will be replaced by a soi[illegible] 80 × 140 ft. The power [illegible] room, core room and patt[illegible] will be of solid brick also.

WAUPUN, WIS.—The St[illegible] Madison, June 8 recomme[illegible] priation of $125,000 for [illegible] binding twine plant at the [illegible] Waupun.

DES MOINES, IOWA.—Th[illegible] NEERING CO., Northrup B[illegible] has secured the contract for [illegible] cement plant at Des Moine[illegible] Portland Cement Co.

WEST DULUTH (Duluth post-office), MINN.—Articles of incorporation have been filed with the Secretary of State of the Minnesota Steel Co., with a paid-up capital of $10,000,000. The incorporators are T. F. Cole and others, all of Duluth. The works will be located at West Duluth.

ST. LOUIS, MO.—Russell V. Larkin, Joseph S. McIntyre and Charles H. Lanham have incorporated the Economy Rug Manufacturing Co., with a capital stock of $20,000.

DE SOTO, MO.—H. G. Clymer, Chestnut and Seventh Sts., St. Louis, has completed plans for a factory to be erected at De Soto for the Peters Shoe Co. The plans call for a main building, 300 × 50 ft., with power plant and fireproof boiler and engine rooms. The factory is to be of mill construction, equipped with fireproof stairways and elevator shafts, and will cost about $80,000. It will be three stories high.

WICHITA FALLS, TEX.—Neil P. Anderson & Co., of Fort Worth, have purchased two blocks of ground in Wichita upon which they will begin the erection of a compress at once, the compress to be ready for operation by September 15.

SEATTLE, WASH.—The Seattle Standard Woolen Co. has been incorporated with capital of $300,000. George E. Warren, Elvarado Howard, A. E. Lillis and W. H. Gafford are incorporators.

ALBANY, ORE.—The Willamette Valley Woolen Mill Co., G. A. Huddleson, Pres., will erect a large woolen mill at once. Capital, $150,000.

SALINAS, CAL.—The National Portland Cement Co. has been formed, with offices at 413 Mutual Savings Bank Bldg., San Francisco, to construct cement plant at Salinas, to cost, with machinery, about $2,500,000. R. H. McWilliams, of Durham, Ont., is Engr. Hugh Center, of San Jose, is Treas.

WINNIPEG, MAN.—The J. McDIARMID CONSTRUCTION CO., of Winnipeg, has been awarded the following contracts by the Canadian Pacific Ry. Co.: Roundhouses at Cranbrook, Coleridge, Strathcona and Swift Current, and also contract in Winnipeg for additions to the shops and car sheds. Estimated cost, $125,000.

BRANDON, MAN.—KELLY BROS., of Winnipeg, Man., have been awarded contract by the Canadian Pacific Ry. Co. to erect machine shop at Brandon. Estimated cost, $20,000.

MISCELLANEOUS CONTRACTS.

(denotes that this work is advertised in Engineering News.)*

MONUMENT.—Somerville, Mass.—The City has appropriated $20,000 for a Soldiers' Monument, to be erected in Somerville. E. W. Bailey is City Engr.

REPAIRING DAM.—South Bend, Ind.—Bids are asked by Knoblock & Ginz for repairing of a dam in St. Joseph River, recently damaged by flood.

*DREDGING.—New York, N. Y.—Bids are asked until noon, July 11, by Col. John G. D. Knight, Corps Engrs., U. S. A., for dredging in Hudson River, N. Y.

*DREDGING.—Block Island, R. I.—Bids are asked until 11 a. m., July 17, by Lieut. Col. J. H. Willard, Corps Engrs., U. S. A., for dredging in harbor at Block Island.

TELEPHONE LINE.—Crystal City, Man.—The Louise Telephone Co. will build a long distance telephone line from here to Snowflake, a distance of approximately 20 miles.

*DREDGING.—Jacksonville, Fla.—Bids are asked until noon, July 24, by Major Francis R. Shunk, Corps. Engrs., U. S. A., for dredging in St. Johns River, Fla., at Jacksonville.

BULKHEADS.—San Jose, Cal.—The contract for constructing bulkheads over Los Gatos Creek at Park Ave. has been awarded to JOHN DOYLE, 660 North 10th St., San Jose, for $6,265.

LEVEE.—New Orleans, La.—Bids were received June 8 by Capt. J. F. McIndoe, Corps of Engrs., U. S. A., for constructing about 457,000 cu. yds. levee work in the Lower Tensas Levee District. Contract for the work was awarded to M. L. LENNAN, White Castle, La., at $165,593.

ELEVATING TRACKS.—Indianapolis, Ind.—Plans for elevating tracks at East Washington St. and Belt Road have been approved by the Board of Public Works. Estimated cost, $100,000.

CRIB-WORK.—Toronto, Ont.—The City Council has decided to construct crib-work in connection with the sea-wall opposite the exhibition grounds at a cost of $45,700. W. H. Rust is City Engr.

*DAM.—Cincinnati, Ohio.—Bids are asked by Lieut. Col. William Rossell, Corps Engrs. U. S. A., until 2 p. m., July 18, for constructing concrete dam, etc., at the head of Brown's Island, Ohio River.

*LIGHT-HOUSE, ETC.—Philadelphia, Pa.—Bids are asked until 11 a. m., July 2, by the Light-house Engineer, Philadelphia, for erecting a lighthouse, barn, oilhouse, etc., at Listons Range Front Light Station, Del.

*PILE PIER.—Winnetka, Ill.—Bids are asked until 4 p. m., June 26, by F. J. Hecht, Chn. Harbor Com., of the Winnetka Park District, for constructing 436 lin. ft. of pile pier for a harbor. Frank A. Windes is Engr.

FLOATING BATH.—New York, N. Y.—Bids are asked until 11 a. m., June 26, by Joseph Termel, Pres. Boro. of Queens, for construction of a floating bath in the Boro. of Queens, together with all the work incidental thereto.

TUNNEL.—Spokane, Wash.—J. A. Lynch has applied to City Council for franchise to build a tunnel 7,000 ft. long in Spokane, to accommodate four standard gage tracks. Provision is made for work to start in 60 days, and that either steam or electric cars may be operated.

*WHARF, ETC.—San Diego, Cal.—Bids are asked at the Bureau of Equipment, Navy Dept., Washington, D. C., until 11 a. m., August 20, for constructing a wharf, and a trestle and coal bunker on the wharf of the U. S. naval coal depot, at San Diego. William S. Cowles is Ch. of Bureau.

COAL POCKET.—Boston, Mass.—George P. Carver, 53 State St., Boston, is preparing plans for a reinforced concrete coal pocket, 182 × 92 ft., reinforced concrete, of 8,000 tons capacity. Plans and specifications will be ready in about two weeks, at which time the work will be let. The foundation will be concrete piles.

DOCK.—Everett, Wash.—At a recent mass meeting Everett citizens voted unanimously in favor of the City Council proceeding with the construction of a city dock in preference to leasing the property to private parties. The estimated cost of the new structure is $22,600. It will probably be 60 × 300 ft. in size, with a 24-ft. driveway, 450 ft. in length.

STEEL LOCK GATE.—Pittsburg, Pa.—The following proposals for removing a steel lock gate and building and erecting in its place a new steel lock gate, at Lock 6, Ohio River, were received June 12, by Major H. C. Newcomer, Corps of Engrs., U. S. A.: Penn Bridge Co., Beaver Falls, Pa., $23,290; Pennsylvania Contracting Co., 200 Ninth St., Pittsburg, $27,733.

IMPROVING RIVER.—Binghamton, N. Y.—The Legislature has passed a bill, becoming chapter 249, Laws of 1907, authorizing the city of Binghamton to issue bonds, if approved at a special election to be held in that city, for a sum not to exceed $70,000, for the purpose of regulating and improving the flow of the Chenango River in this city. Hiram H. Woodburn is Mayor.

JETTY WORK.—Sabine Pass, Tex.—Bids were received by Capt. J. F. McIndoe, Corps Engrs., U. S. A., 1539 Louisiana Ave., New Orleans, La., on June 15, for jetty work at Sabine Pass, Tex., as advertised. The contract was let to CHARLES CLARKE & CO., Galveston Tex., who will construct the jetty of granite and sandstone at $2.59⅝ a ton. About 100,000 tons of stone will be used.

DREDGING.—Baltimore, Md.—The contract for dredging in several harbors and rivers in Maryland, bids for which were received June 3 by Lieut.-Col. R. L. Hoxie, Corps Engrs., U. S. A., 812 St. Paul St., has been let to the MARYLAND DREDGING & CONTRACTING CO., Fidelity Bldg., Baltimore. The contract calls for dredging 675,037 cu. yds. at 19 cts. a cubic yard; total, $128,259.

COAL BUNKERS.—Philadelphia, Pa.—The following bids were received June 15, at the office of James Knox Taylor, Superv. Arch. of the Treasury, Washington, D. C., for construction of coal bunkers at the United States Mint at Philadelphia, Pa.: Charles McCaul Co., Lancaster and Media Sts., Philadelphia, $35,961, time as specified; John Baizley Iron Works, Philadelphia, Pa., $49,270, May 1, 1908.

DREDGING.—San Diego, Cal.—Bids were received by Capt. Amos A. Fries, Corps of Engrs., U. S. A., 537 Citizens' National Bank, Los Angeles, June 12, for dredging about 37,000 cu. yds. at San Diego Harbor, Cal., as follows: North American Dredging Co., 13 Park Row, New York, 51 cts. a cu. yd. Atlantic, Gulf & Pacific Co., 13 Park Row, New York, N. Y., 98 cts. a cu. yd. Estimated cost, $19,000.

RAIL FENCE.—New York, N. Y.—The following bids were received by the Park Board for putting in place a 3-rail pipe fence around Greenpoint Park, in the Boro. of Brooklyn, and all work incidental thereto, prices given per lineal foot: New Jersey Foundry & Machinery Co., 9 Murray St., 72.8 cts.; Vulcan Iron Works, 45 Broadway, 62.5 cts.; Charles Cranford, Foster Ave., Brooklyn, $1.07; N. G. Kelsey, New York, 93 cts.; Kelley & Kelly, 45 East 42d St., 83 cts.

BARGES.—Vicksburg, Miss.—Bids were received as follows for construction of twelve wooden material barges for use in Third District, Mississippi River, on June 14, by Capt. G. M. Hoffman, Corps of Engrs., U. S. A., Vicksburg, Miss., price given per barge: Oscar F. Barrett, Chamber of Commerce Bldg., Cincinnati, Ohio, $4,200; Howard Ship Yards Co., Jeffersonville, Ind., $5,594; Woodward, Wight & Co., Ltd., 410 Canal St., New Orleans, La., $4,422; J. M. Hammitt, Marietta, Ohio, $4,936.

NEW CITY.—San Jose, Cal.—C. H. Johnson, E. W. Knapp, H. H. Madsen, S. G. Tompkins, F. M. Temple, J. M. Pitman, C. E. Randall, J. F. Garns and George Morison, of San Jose, have formed a corporation to build a city called Elevada, about ten miles west of San Jose. The location of Elevada is excellent, being in the foothills overlooking the valley. The company will at once begin the work of building the streets, sewers and sidewalks for the new city. Elevada will be almost exclusively a residence community.

DREDGE.—Oregon.—Bids for constructing single screw suction dredge for Columbia River, Ore., were received by Major J. C. Sanford, Corps Engrs., U. S. A., Philadelphia, Pa., on June 7 as follows: The Moran Co., Seattle, Wash., $285,000, time, 14 months, delivery at Seattle, Wash. Newport News Shipbuilding & Dry Dock Co., 1 Broadway, New York, $234,500, 11 months, Newport News, Va. Maryland Steel Co. of Baltimore County, Sparrows Point, Md., $239,850, 11 months, Sparrows Point, Md.

FIRE ALARM SYSTEM.—New York, N. Y.—The following bids were received on June 17, by C. B. J. Snyder, Supt. School Bldgs., for installing fire alarm telegraph system in Public Schools Nos. 16, 37, 45, 77, 81, 92, 95, 96, 97, 98, 99, 100, 101, 102, 119, 127, 128, 134, 139, Manual Training High School and Boys' High School Annex, also for installing cut-outs in loops for various schools in the Boro. of Brooklyn: Commercial Construction Co., 1 Madison Ave., $9,842; Frederick Pearce, 18 Rose St., $12,650.

DREDGE.—Washington, D. C.—Bids were received June 13, at the office of Capt. Spencer Cosby, Corps Engrs., U. S. A., Washington, D. C., for furnishing a 10-in. hydraulic dredge for use in the Dalecarlia Reservoir, Washington Aqueduct, D. C., as follows: Alex Miller & Bro., 10 Morris St., Jersey City, $39,500; J. Marvin Briggs, 154 Nassau St., New York, $35,887, $37,137 on bidder's specifications; Wetherill Bros. Machine Co., Chester, Pa., $26,400 on bidder's specifications; Ellicott Machinery Co., Baltimore, Md., $27,470 on bidder's specifications.

MUNICIPAL IMPROVEMENTS.—Chicago, Ill.—The Governor signed the three Chicago park bills enabling the City and Park Commissioners to carry out the "city beautiful" project. The bills must now be submitted to a vote. The bills signed are: Authorizing City Council to permit the erection of a bridge to carry out the plan; authorizing Commissioners of Lincoln Park to issue $1,000,000 bonds for this improvement, and authorizing the City Council to construct and maintain surface and elevated ways and turn the same over to public park corporate authorities.

LEVEE.—Memphis, Tenn.—The following bids were received by Capt. William D. Connor, Corps. Engrs., U. S. A., for 1,600,000 cu. yds. levee work in the First and Second Districts, Mississippi River Improvement, as advertised: (a) Upper St. Francis Levee District, (b) Lower St. Francis Levee District, (c) White River Levee District; W. L. Mosby, Memphis, (a) $110,448, (b) $129,856, (c) $240,304; Roach & Stansell, Memphis, (a) $110,535 (b) $210,253, (c) $371,188; Charles W. Little, Caruthersville, Mo., (b), $78,859, (c) $78,859; R. L. Leonard, Memphis, (a) $111,142, (b) $136,257, (c) $247,399; A. C. Tindle, Caruthersville, Mo., (b) $46,384, (c) $46,384; P. H. Rogers, Memphis, (a) $114,798, (b) $135,491, (c) $250,289.

LIGHT VESSELS.—Washington, D. C.—Bids were received as follows June 12 at the office of the Light House Board, Dept. of Commerce and Labor, Washington, for construction of four vessels, Nos. 91, 90, 92 and 93, for the light house service: Fore River Shipbuilding Co., Quincy, Mass., for four vessels, $428,850, with Scotch boilers, $428,850. Newport News Shipbuilding & Dry Dock Co., Newport News, Va., one vessel, $114,500, with Scotch boilers, $113,500; for two vessels, $227,000, $226,000; three vessels, $335,000, $334,000; four vessels, $441,000, $440,000. New York Shipbuilding Co., 12 Broadway, New York, two vessels, $222,000, with Scotch marine boilers, $224,000; four vessels, $438,000, $442,000.

SUBWAY.—New York, N. Y.—Bids were received June 13, by the Board of Rapid Transit R. R. Commissioners for building a certain rapid transit railroad, known as Route No. 9, in Delancey St. (Manhattan) and other streets in the Boroughs of Manhattan and Brooklyn, including ultimately Centre St., Grand St., Desbrosses St., Canal St. and William St., in Manhattan, and Fulton St., Lafayette Ave. and Broadway in Brooklyn. The following bids were received for that part of said railroad which is situated in Delancey St., between the Bowery and Norfolk St.: (a) railroad, (b) pipe gallery: Cranford Co., 52 Ninth Ave., Brooklyn, (a) $1,800,000; (b) $80,000; Degnon Contracting Co., 60 Wall St. (a) $1,530,000, (b) $175,000; Bradley Contracting Co., 154 East 24th St., (a) $1,229,136 (b) $69,300; Patrick McGovern, 6 Beacon St., Boston, Mass., (a) $1,595,000, (b) $7,500; Thomas Crimmins Contracting Co., 444 East 69th St., (a) $1,374,649, (b) $91,120.

The following bids were received at the same time and place to construct that part of said railroad which is situated between a line crossing Centre St., about 40 ft. north of Pearl St. and the southeasterly side of Park Row, (a) railroad, (b) pipe gallery: Williams Engineering & Contracting Co., 13 Park Row, (a) $1,250,000, (b) $7,500; Degnon Contracting Co., 60 Wall St., (a) $1,386,000, (b) $10,000; Patrick McGovern, 6 Beacon St., Boston, Mass., (a) $1,257,000 (b) $10,000; Bradley Contracting Co., 154 East 24th St., (a) $998,328, (b) $5,500.

The following bids were received at the same time and place for constructing that part of said railroad which begins at the northerly side of Broome St. and curves through Cleveland Pl. (formerly Marion St.) and private property into the new Delancey St. extension, and runs thence under said extension and under and across the Bowery and under Delancey St. to a point about 225 ft. east of the center line of the Bowery: (a) railroad, (b) pipe gallery: Cranford Co., 52 Ninth Ave., Brooklyn, (a) $1,630,000, (b) $45,000; Degnon Contracting Co., 60 Wall St., (a) $1,938,000, (b) $60,000; Patrick McGovern, 6 Beacon St., Boston, Mass., (a) $1,950,000, (b) $60,000; Bradley Contracting Co., 154 East 24th St., (a) $1,518,302, (b) $29,040.

The BRADLEY CONTRACTING CO., 154 East 24th St., has been awarded all three contracts.

U. S. POSSESSIONS AND CUBA.

The names of parties awarded contracts are printed in capital letters.

*PIER.—Porto Rico.—Bids are asked until 10 a. m., Aug. 3, by L. H. Grahame, Comr. of the Interior, San Juan, for repair and rental of the iron pier located at La Puntilla, in the city of Mayaguez. Estimated cost of repairs, $36,394.

EXPLOSIVES.—Panama.—Requisitions have been received from the Isthmus by the Isthmian Canal Commission, Washington, D. C., for a quantity of explosives, as follows: 700,000 lbs. saltpeter dynamite, 45% nitro-glycerine, in cartridges, 1¼ ins. diameter, 8 ins. long; 50,000 lbs. same, cartridges, 1 in. diam., 8 ins. long; 500,000 lbs. 60% dynamite, in cartridges, 1¼ in. × 8 ins.; 15,000 24-ft. electric exploders; 15,000 20 ft. same; 75,000 detonators.

TIES.—Panama.—Bids were opened June 12, at the office of David W. Ross, Gen. Purchasing Officer, Isthmian Canal Commission, Washington, for furnishing 150,000 cross ties (a), and 275 sets switch ties (b), as follows: American Tie & Timber Co., 11 Broadway, New York, (a) $140,250; (b) $24,103; 200 and 120 days. G. S. BAXTER, 17 William St., New York, (a) $137,100 (awarded contract), $148,500; (b) $28,723; 180 and 80 days. William P. Cook & Co., 100 Wall St., New York, (a) $142,500; (b) $22,095; 270 days. G. Elias & Bro., Buffalo, N. Y., (a) $235,500; $249,000; (b) $28,120; 180 and 120 days. L. J. Merriman, Wilmington, N. C., (a) $142,000; (b) $22,200; 225 days; Ruddock Orleans Cypress Co., Carrollton Ave., New Orleans, (b) $22,095, f. o. b. New Orleans; 195 days.

ENGINEERING SUPPLIES.—Panama.—Bids are asked until 10.30 a. m., June 27, under Circular 371, by David W. Ross, Gen. Purchasing Officer, Isthmian Canal Commission, Washington, D. C., for engineering supplies, as follows: 2,785 piles, from 15 ft. to 75 ft. in length; 16,420 pieces of lumber of various sizes, Douglas fir, long leaf yellow pine, or tamarack; 2,000 wrought-iron pipe, 10 in.; 180 steel plates for construction of pontoon line and discharge pipe for pipe-line dredges; three direct connected dynamos and engines, 5 k. w.; and a large quantity of furniture, refrigerators, mattresses, pillows, mosquito bars, mats and ranges.

Bids are asked until 10.30 a. m., July 3, under Circular 372, for supplies, as follows: 20,000 ft. cast-iron soil pipe, 2 and 4 in., and fittings; sanitary fixtures, oakum, solder, hose, saws, molding bits, emery-wheel stands, camp chairs, etc.

FOREIGN CONTRACTS.

The names of parties awarded contracts are printed in capital letters.

CABLE.—Spain.—Repairs are to be made to the Cadiz-Teneriffe cable, which will cost about $30,000.

FLOATING DOCK.—Italy.—The Italian Government has voted a sum of 3,300,000 lire ($660,000) for construction of a floating dock at Taranto.

LOCOMOTIVES.—Australia.—Bids are asked until Aug. 13 by the Chief Mechanical Engineer, Islington, South Australia, for five locomotives and tenders, and for five Class F tank locomotives.

RAILWAY SUPPLIES.—India.—The Secretary of State for India will receive bids for wheels and axles, 5 ft. 6 in. gage; wheels and axles, metric gage; dog spikes; fishbolts; rails and fishplates.

RAILWAY EQUIPMENT.—Denmark.—The Danish Department of Public Works, Copenhagen, proposes to purchase three locomotives for express trains and 12 passenger carriages, at a cost of $163,000.

CANALS.—Spain.—The Public Works Department, Madrid, will construct a canal from Arragon to Catalonia, to cost about $124,000. The Zaidin canal also will be constructed at a cost of about $213,000.

RAILWAY.—Sweden.—The Swedish Legislature has decided to appropriate $321,600 for extension of the state railway system in Lapland from Morjav to Laptrask. This extension will bring the line to about 12 miles from the frontier of Finland.

COTTON MILL.—China.—The Acting Salt Commissioner of the Ch'angiu Circuit, Chou, is about to obtain a foreign loan of about $3,750,000, covered by the salt revenue of that Circuit, for erection of a cotton spinning and weaving mill and cement works in Chihli Province.

ELECTRIC RAILWAY.—Switzerland.—A concession has been granted to M. X. Imfeld, Engr., of Zurich, to the Altioth Electricity Co., of Munchenstein, and to M. Zehnder, of Montreux, director of the Montreux-Oberland Railway, for the construction and working of an electric railway, narrow gage, from Brigue to Gletsch.

CONTRACT PRICES.

[Where (*) precedes items under Contract Prices the work was advertised in Engineering News.]

*BRICK PAVING.—Cadiz, Ohio.—Bids were received by W. H. Lucas, Town Clk., on June 1 for 17,700 sq. yds., more or less, of street paving, with brick. The Riggs-Sherman Co., 613 Nasby Building, Toledo, Ohio, are Engrs. In detail the bids were as follows: (A) McLaughlin & Branson, Cadiz; (B) E. A. Freshwater & Son, Chester, W. Va.; (C) Rosser & Maloney, Bellaire, Ohio; (D) Geo. B. Clifford, Martins Ferry, Ohio; (E) Dixon & Pickett, Martins Ferry, Ohio; (F) Rhinehart Bros., East Liverpool, Ohio; (G) Warwick & Timmons, Cadiz:

	(A)	(B)	(C)	(D)	(E)*	(F)†	(G)
1 catch basin and cover, complete	$35.00	$32.00	$45.00	$30.00	$38.00	$35.00	$55.00
10 inlets, complete	30.00	28.00	60.00	10.00	12.50	25.00	20.00
8 combined catch basins and inlets	55.00	48.00	60.00	50.00	60.00	.....	40.00
395 ft. 10″ sewer pipe, in place	.50	.46	1.75	.80	....	.75	.275
1,160 ft. 12″ sewer pipe, in place	.60	.53	1.85	.90	.75	.87	.45
1,003 ft. 5″ × 22″ stone curb, in place	.97	.68	.57	.80	.63	.63	.75
1,897 ft. 5″ × 20″ stone curb, in place	.94	.64	.55	.76	.63	.59	.70
2,680 ft. 5″ × 18″ stone curb, in place	.90	.59	.50	.70	.63	.55	.60
3 manholes and covers, complete	35.00	49.00	55.00	40.00	55.00	35.00	40.00
840 ft. old curb recut and reset	.40	.21	.19	.22	.20	.20	.30
902 ft. stone headers, in place	.80	.38	.50	.70	.18	.40	.60
	$7,999.19	$5,635.98	$7,692.91	$6,946.32	$5,523.76	$5,449.37	$5,807.00
Pavements laid with:							
14,771 sq. yds. American sewer pipe W. C. brick	.....	1.48	.....	.....	.....	1.45	.....
14,771 " " American paving block	.....	1.58	.....	1.71	.....	.....	.....
14,771 " " Bessemer block	.....	1.56	.....	.....	1.685	1.55	.....
14,771 " " Canton paving brick	.....	1.49	1.51	.....	1.615	1.48	1.585
14,771 " " Canton block	1.84	1.56	1.54	1.72	1.702	1.57	.....
14,771 " " Carrollton block	1.81	1.53	1.52	1.71	1.695	1.56	.....
14,771 " " Carrollton W. C. brick	.....	1.52	1.51	1.69	1.672	1.53	.....
14,771 " " Globe W. C. brick	1.77	1.58	1.51	1.68	1.644	1.51	.....
14,771 " " Mack hillside block	.....	.....	1.62	1.82	1.814	.....	.....
14,771 " " Mack repressed block	1.88	1.63	1.58	1.78	1.775	1.62	.....
14,771 " " Mack W. C. brick	.....	1.49	1.58	1.75	1.731	1.59	.....
14,771 " " Malvern Medal block	.....	1.57	1.52	1.73	1.715	1.58	.....
14,771 " " Metropolitan block	.....	1.58	1.54	1.73	1.723	1.59	.....
14,771 " " Porter National block	.....	1.64	1.55	1.72	1.719	1.59	.....
14,771 " " Standard Brick Co.	.....	.....	.....	.....	.....	1.52	.....
14,771 " " Toronto paving brick	.....	.....	.....	1.68	.....	1.52	.....
14,771 " " Townsend paving block	1.85	1.60	1.51	1.75	1.716	1.58	.....
14,771 " " asphalt filler	.15	.31	.25	.15	.....	.28	.....
14,771 " " tar filler	.15	.16	.15	.14	.....	.15	.....
14,771 " " sand filler	.07	.08	.03	.05	.02	.05	.02
Extra gravel	3.50	1.40	1.75	1.75	1.75	2.00	2.25
Extra concrete	7.00	4.40	6.00	7.00	7.00	8.00	6.00
Extra broken stone	.....	.....	.....	2.60	.247	.....	.....
4″ drain tile	.20	.08	.04	.20	.....	.28	.05
6″ drain tile	.30	.10	.05	.24	.....	.40	.06
Range of bids	$37,984.32	$34,439.43	$35,314.68	$36,045.19	$32,613.77	$33,514.27	.....
	$35,177.85	$28,078.74	$30,440.25	$32,500.15	$29,674.35	$27,605.87	$29,514.00

*Omit 10″ sewer pipe. †Omit combined catch basins and inlets.

NEW YORK, N. Y.—Bids were received as follows by Bird S. Coler, Pres. Boro. of Brooklyn, on June 12, for constructing relief sewer in Gold St., from pier-head line to Johnson St., and in Johnson St., from Gold St. to Hudson Ave., Section No. 1, Division No. 2, Gold St. system; (A) Borough Construction Co., 44 Court St., Brooklyn; (B) Jenks Asserson Co., 39 Pearl St., New York; (C) John J. Creen, 899 Green Ave., Brooklyn:

	(A)	(B)	(C)
173 lin. ft. outlet, Section A	$152.00	$170.00	$160.00
175 lin. ft. outlet, Section B	153.00	121.00	160.00
80 lin. ft. connecting chamber	200.00	117.50	160.00
1,775 lin. ft. 162" circular sewer	102.00	90.50	107.00
1,431 lin. ft. 156" circular sewer	90.00	81.50	98.00
928 lin. ft. 150" circular sewer	88.00	76.50	87.00
20 lin. ft. 3' × 4' 6" egg-shaped sewer	20.00	33.00	10.00
160 lin. ft. 24" pipe sewer	4.35	4.88	5.00
230 lin. ft. 18" pipe sewer	3.30	5.75	4.00
1,440 lin. ft. 15" pipe sewer	2.50	5.33	3.00
5,900 lin. ft. 12" pipe sewer	2.00	4.80	2.50
30 lin. ft. 24" pipe temporary drain	4.35	4.00	5.00
160 lin. ft. 15" pipe temporary drain	2.45	3.50	3.00
295 lin. ft. 12" pipe temporary drain	2.00	1.54	2.00
4,130 lin. ft. 12" pipe sub drain	1.35	1.22	1.00
3 manholes, Class A	792.00	800.00	900.00
7 manholes, Class B	198.00	800.00	250.00
2 manholes, Class C	200.00	800.00	200.00
1 manhole, on 3' × 4' 6" egg-shaped sewer	80.00	100.00	50.00
74 manholes on pipe sewer	72.00	75.00	60.00
53 sewer basins reconnected	27.00	50.00	50.00
1,100,000 ft. B. M. sheeting and bracing	37.50	54.60	25.00
420,000 ft. B. M. foundation planking	33.00	54.60	20.00
2,400 cu. yds. foundation concrete	8.30	8.40	4.00
90,000 lin. ft. bearing piles	.31	.37	.15
50,000 ft. B. M. pipe capping	50.00	54.60	20.00
2,700 lin. ft. oak fender piles	.50	.60	.50
260,000 ft. B. M. yellow pine sheet piling and wales	72.50	100.00	85.00
2,280 cu. yds. riprap or cobblestone fill, inside of cofferdam	1.00	.94	1.00
370 cu. yds. riprap outside of cofferdam	1.00	.94	1.00
Totals	$623,793	$633,365	$603,800

CIVIL SERVICE EXAMINATIONS.

ASSISTANT CHEMIST.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on July 10 to secure eligibles from which to make certification to fill a vacancy in the position of second Assistant Chemist in the Engineer Department at Large for duty at the Washington, D. C., filtration plant, at a salary of $1,000 a year, and similar vacancies as they may occur. Age limit, 20 years. Application Form 1312.

LABORATORY AID.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on July 10, to secure eligibles from which to make certification to fill vacancies in the position of Laboratory Aid in economic botany (either sex), in the Bureau of Plant Industry, Department of Agriculture, at a salary of $600 a year, with good prospects for promotion for persons who perform satisfactory work. Age limit, 17 to 25 years. Application Form 304.

ASSISTANT IN SOIL BACTERIOLOGY (MALE).—Washington, D. C.—An examination is announced by the U. S. Civil Service Commission, on July 10, to secure eligibles from which to make certification to fill a vacancy in the position of Assistant in Soil Bacteriology (male), $1,400 a year, Bureau of Plant Industry, Department of Agriculture, and similar vacancies as they may occur. Applicants will not be assembled for any of the tests. Age limit, 20 years. Application Form 304.

MICRO-ANALYST.—Washington, D. C.—An examination is announced by the U. S. Civil Service Commission on July 10, to secure eligibles from which to make certification to fill at least two vacancies in the position of Micro-analyst (either sex), at salaries ranging from $1,000 to $1,500 a year, depending upon the qualifications shown, in the Bureau of Chemistry, Department of Agriculture, and vacancies as they may occur requiring similar qualifications. Age limit, 20 to 40 years. Application Form 304.

ELECTRICAL ENGINEER AND DRAFTSMAN.—Washington, D. C.—On July 18-19-20 the U. S. Civil Service Commission will hold an examination to secure eligibles from which to make certification to fill a vacancy in the position of Electrical Engineer and Draftsman in the Supervising Architect's Office, at $1,200 a year, and several vacancies in this position as they may occur during the period of eligibility, at salaries ranging from $1,200 to $1,600. As no eligibles were secured as the result of the examination held in March for this position, qualified persons are urged to enter this examination. Age limit, 20 years. Application Form 1312.

ASSISTANT EXAMINER.—Washington, D. C.—On July 10-11 the U. S. Civil Service Commission will hold an examination to secure eligibles from which to make certification to fill vacancies as they may occur in the position of Assistant Examiner in the Patent Office, at an entrance salary of $1,200 a year. As the number of eligibles for this position has always been insufficient to meet the needs of the service, qualified persons are urged to enter this examination. For several years past practically all who have passed the examination for this position have been offered appointment. Age limit, 20 years. Application Form 1312.

SECOND-CLASS (OR ASSISTANT) STEAM ENGINEER.—Washington, D. C.—The U. S. Civil Service Commission announces the postponement to July 10, 1907, of the examination scheduled for June 26, to secure eligibles from which to make certification to fill a vacancy in the position of Assistant Engineer (qualified as electrician), in the Office of the Secretary of War, at $720 a year, a vacancy in the position of assistant engineer (qualified as both steam and electrical engineer capable of operating an electrical plant), $1,000 a year, Bureau of Standards, and similar vacancies as they may occur. Age limit, 20 years. Application Form 1093.

INDUSTRIAL NOTES.

AT A RECENT MEETING of the stockholders of the International Steam Pump Co. the following directors were elected: John W. Dunn, Leon P. Feustman, Nathan Fleischer, Alfred Nathan, John E. Bourne, Edgar M. Leventritt, Marcus Stine, J. B. Haggin, Wm. Guggenheim, Benjamin Guggenheim, Irwin C. Stump, Cord Meyer, W. C. Woodin, Walter Laidlaw. At a subsequent meeting the following officers were elected: John W. Dunn, President; Leon P. Feustman, Vice-President; Alfred Nathan, Secy.; Nathan Fleischer, Treas.

THE BUSINESSES formerly conducted at Waltham, Mass., by Fred C. Gifford and at Quincy, Mass., by Pinel Bros. have been consolidated, and will hereafter be conducted by a Massachusetts corporation, the Gifford-Pinel Company, with offices at 140 Pearl St., Boston. It is the purpose of the new corporation to manufacture tools of iron and steel in great variety for the stone and quarry trade, contractors, and city and town departments.

THE POWER & MINING MACHINERY CO., Cudahy, Wis., has sold a number of the larger sized crushers during the past sixty or ninety days, which, with those of smaller sizes, makes an interesting list of sales, a few of the more important of which are mentioned below: J. J. Callanan, New York.—No. 10 crushing plant, including a 60-in. × 30-ft. extra heavy roller type screen. This installation is in the nature of an increase in their old No. 8 plant and will permit the use of a steam shovel in the quarry. Hudson Portland Cement Co., New York.—No. 10 crushing plant, with a No. 10, 40-ft. elevator. The old plant consisted of two No. 5 machines for crushing their cement rock. The increased capacity afforded by the new equipment, however, will enable them to use a steam shovel in loading the quarry cars. Sandusky Portland Cement Co., Illinois.—One No. 8 and two No. 5 McCully crushers, with two 48-in. × 20-ft. bevel geared roller type screens, for their plant at Dixon, Ill.; also one No. 4 McCully crusher each for their plants at York, Pa., and Bay Bridge, Ohio. Iola Portland Cement Co., Kansas.—No. 10 McCully crusher for their plant at Dallas, Tex. North River Stone Co., New York.—No. 10 McCully crusher. Dewey Portland Cement Co., Indian Territory.—No. 10 and two No. 5 McCully crushers. Croton Falls Stone Co., New York.—One No. 10 and two No. 6 McCully crushers; one No. 9 McCully elevator 40-ft. centers, an done 5-ft. × 25-ft. revolving screen.

TRADE PUBLICATIONS.

BELT LACING.—Flexible Steel Lacing Co., 173 South Canal St., Chicago. Paper; 3 × 5½ ins.; pp. 6; illustrated.

This is a flexible lacing for machine belts of leather, rubber, etc.

SPROCKET WHEELS.—Michigan Sprocket Chain Co., Detroit, Mich. Paper; 6 × 9 ins. pp. 6; illustrated.

These six leaflets form the revised price list of Sprocket and Traction Wheels.

STEAM HEATING BOILERS.—The McCrum-Howell Co., 46-48 East 20th St., New York. Paper; 6 × 9-ins.; pp. 12; illustrated.

The new Richmond sectional steam boilers for heating are described, with tabulated capacities and prices.

WROUGHT PIPE.—James B. Clow & Sons, Chicago, Ill. Clow Bulletin for May. Paper; 7 × 10 ins.; pp. 40; illustrated.

This number contains a profusely illustrated article on the process of making wrought-iron pipe. One-half the issue is devoted to general plumbing supplies.

TRACK JACKS.—Joyce-Cridland Co., Dayton, Ohio. Paper; 4 × 9 ins.; pp. 8; illustrated.

These jacks are of the ratchet type, with instantaneous drop to release the jack on the approach of a train. There is also a special jack of the toggle or friction-grip type. These are described in detail, and prices and dimensions are given. Jacks of the screw and hydraulic types for shop and other kinds of railway work are also listed.

PNEUMATIC PUMPS.—Harrell Pneumatic Pump Co., Chicago. Paper; five 4-page pamphlets; 6¼ × 9¼-ins.; illustrated.

These pamphlets describe a number of types of simplex and duplex pumps for wells, mines, sewage, etc. They may be worked as suction or force pumps, and can be submerged.

ELECTRIC RAILWAYS.—The Arnold Co., 181 La Salle St., Chicago. Paper; 9 × 12 ins.; pp. 12; illusttrated.

This pamphlet is devoted to a description of the Elgin & Belvidere electric railway, in Illinois, which forms a link in an extensive system of interurban lines. The general construction, structures, power plant and car equipment are all described.

IRRIGATION.—Fairbanks, Morse & Co., Chicago, Ill. Catalogue 475 PI. Paper; 6 × 9 ins.; pp. 36; illustrated.

"Practical Irrigation" is the title given to a catalogue of the irrigating machinery handled, which comprises a wide line of engines, motors, compressors, pumps, etc. Considerable general information and many data are given of interest to farm and ranch irrigators. Numerous cuts show machine and methods.

CONCRETE SPREADER AND DUMP CART.—Briggs Labor Saving Specialty Co., Waterloo, Iowa. Paper; 8¾ × 3¾ ins.; pp. 8; illustrated.

The cart has a drop-bottom steel hopper body carried by a pair of 54-in. wheels. The bottom door forms a spreader. For concrete work the cart is made in sizes of ½-yd. to 1-yd. capacity; larger sizes are made for use in handling street sweepings and garbage.

ELECTRIC MINE LOCOMOTIVES, CARE OF.—The Jeffrey Mfg. Co., Columbus, O. Bulletin No. 12; paper; 8 × 10 ins.; pp. 80; illustrated.

This book, while, of course, exploiting particularly the Jeffrey locomotives, is a very complete treatise by Mr. F. L. Sessions, on the care and operation of mine locomotives, testing them when in trouble, etc. Illustrations of parts, appliances, etc., in conjunction with circuit drawings, tables, etc., make the book one worth having by all who are interested in electric mine haulage.

CRESOTED TIMBER.—Kettle River Quarries Co., Security Bank Building, Minneapolis, Minn. Paper; 9 × 6¼ ins.; pp. 47; illustrated.

This attractive pamphlet presents in summarized form the history and development of the creosoting process and the present uses of creosoted timber. The company's plant is described, with its methods of treating ties, paving blocks, piles, posts and structural timbers. The different grades of oil used for treating timbers intended for different purposes are also described.

For other Proposal Advertisements see pages 55, 56, 57, 58, of Advertisements and Construction News page 226.

COURT HOUSE.

Wilkes-Barre, Pa.

Sealed proposals will be received by the county controller of Luzerne County until 2 o'clock P. M., Monday, July 15, 1907, for the construction of the interior work of the court-house building of the County of Luzerne now being erected on river common at the corner of North River and North Streets, in the City of Wilkes-Barre, Pa. Plans and specifications prepared by McCormick & French, architects, and blank forms of contract to be entered into can be seen at the commissioners' office in the court-house on Public Square, Wilkes-Barre, Pa.

Every bidder must sign the form of contract on file in the commissioners' office of Luzerne County and file a bond with and as a part of the bid. The bond shall be in the amount of the bid and shall be executed by a surety company or by sureties satisfactory to and approved by the commissioners of Luzerne County.

A certified check or a bond for 5 per cent. of the amount of the bid must be enclosed in an envelope containing the proposal, as a guarantee that the bidder will enter into the contract, if his bid is accepted by the county commissioners.

Every bidder must set forth in his proposal the number of days in which he will complete the contract from the time of the execution and delivery of the contract.

All bids to be filled out on blanks which can be had at the county commissioners' office of Luzerne County.

All certified checks and bonds deposited by bidders whose proposals shall not be accepted by the County of Luzerne will be returned to the person or persons making the same as soon as the successful bidder has been selected.

Bidders must set forth in their proposals their names and places of [illegible] delivery of a notice to such [illegible] ness shall be deemed to be [illegible] livery and notice to such bid[illegible]

The contract will be let to [illegible] best bidder, and if the bidder [illegible] commence work under the [illegible] quired, the amount of the [illegible] or guarantee bond for 5 [illegible] contract price shall be forfeited [illegible] of Luzerne without diminishing [illegible] its just right to damages.

The County of Luzerne re[illegible] to reject any and all proposals [illegible] incur any liability hereunder [illegible] tract be executed by the [illegible] sioners.

Bids to be indorsed, "Pr[illegible] for construction of the interior work [illegible] court house, Wilkes-Barre, Luzerne County, Pa.," with the name of the [illegible] or persons or corporations making the same.

JAMES M. [illegible]RRIS,
Controller.

Attest:
JAMES A. DEWEY,
Deputy Controller. 25-3t

BRIDGES.

OFFICE OF THE CLERK OF THE TOWN OF NORTH HEMPSTEAD, NASSAU COUNTY, NEW YORK.

Notice is hereby given that sealed bids for the construction of two steel and concrete bridges at Plandome Mills, near Manhasset, in the town of North Hempstead, Nassau County, New York, in accordance with plans and specifications prepared by J. D. C. Mackay, engineer, will be received and publicly opened by the Town Board and the Commissioners of Highways of the said town, at the Town Clerk's office, Roslyn, in said town, on Tuesday, July 2, 1907, at 3.30 o'clock in the afternoon.

All bids must be enclosed in plain sealed envelopes. Each bid must be accompanied by a certified check or cash to the amount of ten per cent. of the bid. The certified checks of unsuccessful bidders will be returned upon the acceptance of any bid; that of the successful bidder will be returned upon the signing of the contract and the filing of a satisfactory bond.

Plans and specifications may be seen at the Town Clerk's office, Roslyn, N. Y.; and at the office of the Engineer, J. D. C. Mackay, Port Washington, N. Y.

The right is reserved to reject any or all bids not deemed to be best interests of the town.

MONROE S. WOOD,
As Clerk of the Town of North Hempstead.
Dated, Roslyn, June 19, 1907. 25-2t

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., June 17, 1907.—Sealed proposals will be received at this office until 3 o'clock P. M. on the 11th day of July, 1907, and then opened, for an electric dumbwaiter in the U. S. Post Office, Court House, etc., at Chicago, Illinois, in accordance with the specification, copies of which may be obtained at this office, at the discretion of the Supervising Architect. JAMES KNOX TAYLOR, Supervising Architect. 25-2t

Situations Wanted

CIVIL ENGINEER.—Rensselaer Polytechnic Institute graduate, wants permanent position with engineering and contracting company. Four years' experience in hydraulic, concrete and structural work. Al references. Address "S. A. 24," Engineering News, New York. 25-2t

SITUATIONS OPEN

WANTED—Electrical Expert Aid, $7.04 per diem; First-class Electrical Draftsman, $5.04 per diem. A competitive examination will be held simultaneously at the Navy Yards, Brooklyn, N. Y.; Washington, D. C., and the Naval Training Station, North Chicago, Ill., July 22 and 23, 1907, for the above positions, and for the purpose of establishing an eligible register of first-class electrical draftsmen. For further information, address COMMANDANT OF THE YARD at which the applicant desires to be examined. 25-2t

WANTED—Draftsman and Estimator for plate and structural work. State experience. Technical graduate desired. NEW JERSEY BOILER CO., Boonton, N. J. 25-1t

FOR SALE

FOR SALE.

Little Giant Steam Shovel

New last November; job just finished. Has dipper handle for digging trench 16 feet deep and 6 feet wide. Ready for delivery in 30 days. Can now be seen at work.
AMERICAN PAVING & CONSTRUCTION CO., 211 S. Ninth St., Philadelphia, Pa. 25-4t

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